Mission: FASNY develops globally literate, multicultural lifelong learners through a unique program that integrates French, American, and international curricula. We educate students to understand, contribute to, and thrive in an interdependent world. FASNY holds its students to the highest standards of academic excellence, supports them in their personal development, and fosters a spirit of inquiry, service, and social responsibility to the environment and the global community.
SCHOOL STRUCTURE
American Terminology

Preschool
Nursery (3-year-olds)
Pre-Kindergarten (4-year-olds)
Kindergarten

Lower School
Grade 1
Grade 2
Grade 3
Grade 4
Grade 5

Middle School
Grade 6
Grade 7
Grade 8

High School
Grade 9
Grade 10
Grade 11
Grade 12

ORGANISATION DE L’ÉCOLE
French Equivalent

École Maternelle
Maternelle petite section
Maternelle moyenne section
Maternelle grande section

École Primaire
Cours préparatoire
Cours élémentaire 1ère année
Cours élémentaire 2ème année
Cours moyen 1ère année
Cours moyen 2ème année

Collège
Sixième
Cinquième
Quatrième

Lycée
Troisième
Seconde
Première
Terminale

FASNY’s unique academic program is rigorous and challenging, adhering to either a combination of traditional American and official French curricula or the IB curriculum in the IB Diploma program classes. In all grades, there is an emphasis on critical thinking and problem-solving.
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Preschool at FASNY is, for many students, their first exposure to a second language. Based at FASNY’s Manor campus, in Larchmont, our preschool students benefit from plenty of outdoor recreation space. The full-day program is designed to stimulate curiosity, promote creative thinking, and develop social skills in a caring and nurturing environment. Language acquisition is at the heart of FASNY’s preschool program. Much of the preschool curriculum is taught in French in order to establish the strong language base needed for the reading process. Language development in both French and English is an integral part of all academic, motor, social, and artistic activities and emphasized in all of the preschool skills taught. French-language support is offered for non-francophones in Nursery, PreK, and Kindergarten. English-support classes are offered for non-anglophones who require more exposure to English. These classes are held in a small-group setting one hour a week in PreK and Kindergarten. In addition, every week a half-day is dedicated to French-language support for non-francophone students and in English for non-anglophones.

Preschool General Information

Excursions/Field Trips

The preschool classes go on several field trips throughout the school year. These trips play an important part in the learning process. Typical excursions include visits to museums and children’s theater productions. The cost of these trips is incorporated in the tuition bill. Parents are often asked to help chaperone preschool trips. Chaperoning is typically organized through the class delegates, who also distribute guidelines for accompanying parents.

Grading System and Report Cards

A report card (Je valide) is sent out twice a year (January and June) in Nursery, PreK, and Kindergarten. This report reflects a student’s progress in French and English, as well as in mathematics skills, motor coordination, and social development. There is also a section for written comments by the French and English teachers. Students are not graded but rather shown as having acquired a skill, in the process of acquiring the skill, or not yet ready to acquire the skill. Communication with parents takes place throughout the year during parent/teacher conference days, at Back-to-School Night, and with teachers during the year, as necessary.

Library

The library contains an increasing number of French and English books and periodicals as well as audio-visual equipment. Each student has the opportunity to visit the library and borrow books and become familiar with its contents and services.

Physical Education

All preschoolers are involved in gross-motor control activities every day, including three scheduled periods a week in the gymnasium.

Preschool English Studies

Nursery

Children in Nursery learn in an environment that fosters exploration, language, and play. They are guided and encouraged to explore freely a variety of multisensory and multimedia materials and to participate in various interactive experiences. A variety of activities takes place in small-group, whole-class, and independent settings, promoting play, construction of knowledge, and creativity. These
activities include building, painting, using Playdough, drawing, working with manipulatives, playing outside, using gym equipment, exploring nature, cooking, dancing, singing, playing imaginatively, playing rhyming games, and listening to stories read aloud. Oral language skills are underscored throughout the curriculum and integrated within the thematic contexts of science, social studies, art, movement, and music.

**Pre-Kindergarten**

As part of the developmental learning continuum, children in Pre-Kindergarten continue to develop the language, motor, and social skills introduced in Nursery and strengthen those that have been established. They begin to articulate in complete sentences, strengthen recognition of sound patterns and rhyming words, identify some letters and make sound-letter matches, and develop concepts of print. Students participate in class discussions, begin to understand key elements in a story, and expand and enrich their vocabulary. They are introduced to a greater amount of subject-matter material as they build the foundations for learning to read and write successfully and the interpersonal skills needed for communicating and cooperating with others.

**Kindergarten**

Experiences expanding the basic language and literacy skills learned in the preschool help to form the basis for developing reading and writing skills—and for expanding oral language skills—in Kindergarten. To help children construct knowledge, subject-area material is broadened and classroom materials become more complex. Teachers provide interactive instructional and play activities to promote social/emotional growth and fine/gross motor development. Developing strong pre-reading skills is also an important goal of Kindergarten. Children build upon phonemic (sounds) awareness skills and progress to more advanced phonetic (letter-sound relationships) skills, learning to identify letters with their corresponding sounds and to apply that knowledge to identify printed words. They are exposed to rhymes, songs, poems, narrative stories, and informational texts. Concepts of print, receptive and expressive vocabulary, listening comprehension, oral language, and motivation to read are developed and expanded upon in the beginning-reading process. With a view toward developing problem-solving skills, students are taught coding and robotics using tactile blocks, iPads, and robots in a bilingual setting.

**Preschool French Studies**

**Cycle 1 (Nursery, Pre-Kindergarten, and Kindergarten)**

Cycle 1 places an emphasis on socialization and the development of language skills. The program is designed to help students develop special relationships with other children as well as with adults. In the process, they establish independent identities and gain autonomy. Additional emphasis is placed on the development of fine and gross motor skills as well as on language development. This is a unique time when children lay the foundation for all future learning.

**Learning to Work Together**

Our primary objective is to teach students to interact and to facilitate the discovery of the norms of social interaction. They assume responsibilities according to their capabilities, account for their actions, and listen to others. Students develop language skills that enable them to better exchange ideas and feelings. The program also provides a wide variety of experiences to help students construct the knowledge that will prepare them for more systematic learning in Cycles 2 and 3.
Kindergarten is a period of transition. The goals of Cycle 1 are met, and the precepts of Cycle 2 are introduced to ready students for the fundamental concepts of grades 1 and 2.

Language

Students engage in a variety of spontaneous verbal exchanges and express themselves in a variety of situations, such as dialogue, story, explanation, justification, and summary. They are prompted and encouraged by teachers to provide oral accounts of their first experiences. Students learn how to communicate. By interacting with them, teachers also encourage them to make progress and apply their new language constructions. Students learn to enunciate, use vocabulary appropriate to purpose, and progressively learn a complex syntax structure through language games.

Exploration of Written Language

Children enter the world of reading and writing through four key areas: phonology; alphabetic principle; pre-writing skills; and writing.

Physical Activities

Physical activities enable harmonious motor skills and intellectual and emotional development. Action and language are key components in children’s development as they explore the space around them. Gradually, they move from handling familiar situations and learn to adapt to their expanding environment. The activities gravitate toward the discovery of self, of others, and of the surrounding environment.

Discovery of the World

Children discover the world around them, both natural and man-made. They construct knowledge through observation or manipulation, and verbalize and offer critical judgments based on their experiments. Oral expression is a major component in this field of activity, which includes the discovery of the worlds of science, mathematics, history, and geography.

Sensitivity, Imagination, Creation

In Cycle 1, children develop their sensitivities, imagination, and ability to create. The main objective is to encourage children to discover the arts and to react to them emotionally. Through varied exposure to works of art, children expand their imagination and learn to express their feelings. Children take pleasure in building and inventing as well as in the exchange of ideas, feelings, and impressions.
LOWER SCHOOL

Curriculum in French - French, mathematics, French history and geography, music (taught bilingually), coding (taught bilingually)

Curriculum in English - English, science (bilingual in grades 1-5), art, physical education, music (taught bilingually), coding (taught bilingually)

Lower School General information

French Studies, English Studies, and the Bilingual Curriculum

The curriculum taught in French is mandated by the French Ministry of National Education, with some contextual adaptations. The English curriculum is developed by the school in accordance with the best practices of American independent schools. Both curricula are harmonized for an ideal bilingual learning experience.

Our students quickly learn that the English and French curricula overlap, just as subjects are linked. Students understand that the various subjects covered are accessible from both curricula and thus are very open-minded and flexible in their approaches to learning. FASNY provides a foundation in written and oral expression, allowing students to continue their bilingual education in middle school.

In order to solidify their reading-acquisition skills, the two sound systems are kept separate, and reading is first taught in French. Building on the English phonetics that are taught in preschool, as well as the reading skills initiated in French, children begin formal English reading instruction in grade 1. There are several levels of English, including the non-native ELL (English Language Learners), in each grade. Students are placed in the level best suited to their needs. They are divided into small groups, based on their individual reading level, thereby creating an ideal and natural learning environment for reading skills to develop.

For students who have no prior English language exposure, we have developed an intensive ELL program, whereby they can enter FASNY at any grade level and learn the English language. Students begin learning to speak, read, and write in order to be able to follow the regular English curriculum as soon as possible yet according to individual progress.

ELL (English Language Learners)

A strong ELL program serves the needs of non-anglophone students in grades 1 to 5. ELL groupings are small and designed to teach English to non-native English-speaking students at a speed and/or level matched to each student’s ability. ELL students learn the same content in social studies and science as all students do in each grade level. The goal of ELL instruction is to enable students to develop socially and academically, while achieving competency in the English language and, eventually, being integrated in a higher-level English class.

Advanced English Language Learners (AELL)

FASNY offers an intermediate stage of English classes, starting in first grade. These transitional classes are designed for students coming out of ELL, with the goal of preparing them to enter native-level English classes. Students in these classes have good basic English-language skills but have not yet acquired the level needed to be successful in a regular English class. The curriculum for the intermediate classes closely follows the regular curriculum, with a greater emphasis on reinforcing higher-level language, reading, and writing skills at an appropriate pace for the student.
Math in Focus
This is an authentic Singapore math curriculum, highlighting problem solving as the focus of mathematical learning. This program teaches concepts using a concrete-pictorial-abstract learning progression to anchor learning in real-world and hands-on experiences. Each topic is approached with the expectation that students will understand both "how" it works, and also "why." The program mirrors the French math program used in the elementary school and allows our students to make bilingual connections between concepts, as well as compare and contrast problem-solving methods. The program is used by students in the international track from grades 1 to 8.

After-School Student Support Recommended by Teachers
The Lower School offers two opportunities for students to obtain learning support after the regular school day. The groups are based on teacher recommendations and approved by the parents. The two groups are:

- Homework Help: One FASNY teacher works with up to four students
- Tutoring: One FASNY teacher works with one or two students, maximum

Note: These programs are separate from the after-school programs that include garderie (childcare) and Supervised Study Hall, which provides a setting for students to do their homework in a relationship of one teacher to 10 students. These two programs are open to parent registration and do not need teacher recommendations in order for students to participate in them.

Tests
French National Evaluations - FASNY administers the national evaluations required by France’s Ministry of Education. Students take national tests at the beginning of third grade. From first grade through fifth grade, regular evaluations are conducted in class to measure students’ mastery of new ideas and concepts.

Standardized Tests - The Comprehensive Testing Program, commonly called the ERB (Educational Records Bureau), is a nationally administered annual testing program that measures academic reasoning and achievement. This test is given each spring to all students in native English classes from grades 3 to 9. Non-native-level English and some ELL students are evaluated with the IOWA tests in grades 3 through 5.

Excursions/Field Trips
Each class goes on several field trips per year. The trips enhance the curriculum and are an important part of the learning process. Typical trips include visits to museums, historical sites, concerts, and theater programs. In addition, students in grade 5 go on an overnight school trip of two days. All students generally travel by school bus on a field trip.

Grading System and Report Cards
Families receive a report on their child’s work two times a year. These semester reports show the level of competence achieved in each subject area. The report card also contains the teachers’ written observations. Parent/teacher conferences are held in November and March.

Library
Each campus has a library. The Lower School library contains an increasing number of French and English books and periodicals as well as audio-visual equipment. Each student has the opportunity to visit the library and become familiar with its materials and services. Lower school students have regularly scheduled instruction periods in the library.

Student Support Team (SST)
The Student Support Team (SST) is intended to gather support when a teacher sees that a
student’s progress in school is not advancing due to changed behavior and/or academic performance. SST meetings may include the child’s parents, his/her teachers, the school psychologist, members of the administration, the speech therapist, and anyone else working directly with the child. The team develops an action plan with strategies to support the student, academically and psychosocially. If further academic or psychosocial evaluation or therapy is necessary, a referral to outside sources will be made. Outside therapists and learning specialists who work with students will be invited to SST meetings.

**Educational Technology**

Educational technology is interwoven in the English curriculum at all grade levels. All students participate in our bilingual coding program. In grades 1 through 3, there is a 1:1 iPad program in place in all the classrooms. The students use the iPads for curricular projects across the disciplines and work on appropriate apps, which reinforce the skills taught in the classroom. In grades 4 and 5, students benefit from a 1:1 Chromebook program that allows them to begin using additional resources for research, writing, and presentation. The fourth- and fifth-grade classrooms have 2:1 iPads available for students.

**Lower School English Studies**

**Grade 1 Curriculum**

**Reading**

The emphasis is on learning and reinforcing letter-sound relationships and developing comprehension skills, reading fluency, and vocabulary acquisition. A phonics-based reading series is used for reading instruction, supported by plays, poetry, and stories for guided reading. Oral skills are developed through participation in class discussions and conversations, including group story-writing, creating plays, reciting poems, and retelling stories.

**Writing**

Instruction includes both modeling and shared writing, as well as individual practice in the fundamentals of written conventions. The value of presentation of work and the use of expressive skills are introduced. Students share in collaborative writing exercises, begin to keep journals, and write brief descriptive sentences. They are encouraged to write freely in response to literature and class discussions. Elementary editing of grammar and punctuation tools are introduced.

**Math**

Instruction in first grade focuses on building problem-solving skills and strategies. In addition students work on counting, comparing and writing numbers to 100 and adding and subtracting 1-digit and 2-digit numbers. Students also learn how to classify and sort shapes and patterns, measure length and weight and use calendars, time and money in real-life applications.

**Social Studies**

First-grade social studies focuses mainly on learning about the immediate surrounding world in which the students live and features American culture and history. Topics include families, important American holidays and historical figures, mapping skills, and current events.

**Science**

In science, students participate in hands-on experiences, experiments, and field visits. Topics of study include ecosystems and recycling, animal habitats and migration, nutrition and the food pyramid, life cycles, forces and motion, and the human body. Children explore habitats (the rainforest, the desert, and polar regions) and nutrition.
Art

The exploration of color and design, through the use of basic techniques and acquisition of art terms, is emphasized. The continued development of fine-motor skills and gross-motor skills is incorporated in projects and activities. Vocabulary and definitions, art critiques, and inclusive class discussions are developed to build self-esteem and creativity. Students begin to maintain an art journal as an opportunity to respond to their own artistic process. Interdisciplinary projects with music are created to contribute to one of the school concerts. All students contribute to the annual art show.

Music

Music is taught in both French and English and through five different approaches: instrumental; vocal; cultural; music theory; and a multimedia project. First-grade students learn to keep a steady beat and execute simple rhythmic patterns on a percussion instrument. They focus on developing good pitch and breathing skills while learning both French and American songs. Students study Mozart, the instrument families, and fundamental concepts of music theory.

Physical Education

The emphasis is on developing one’s personal best, as well as individual skill development in movement patterns and ball activities. Fitness through participation in organized team games, cooperative activities, gymnastics, and dance is encouraged. Specific attention is given to proper throwing, catching, and kicking patterns. Sportsmanship and fair play are modeled and reinforced in each class.

Coding and Robotics

At FASNY, students are exposed to coding at a young age with a view toward developing their problem-solving skills, thus helping students become stronger communicators and thinkers across all disciplines. First graders work with the OSMO coding system, which are tactile blocks that they manipulate to write simple programs. Students write similar programs using Dash robots to solve mathematical problems. Coding and robotics are taught in a bilingual setting.

Educational Technology

First-grade students are introduced to the use of computers, including desktops, Chromebooks, and iPads. Teacher-selected computer programs are used to reinforce language, reading, and writing skills. Students use Internet-based, password-protected sites that reinforce skills learned in the classroom to complete homework. Each student has access to an iPad for use in the classroom every day.

Grade 2 Curriculum

Reading

In second grade, students begin participating in reading activities that include both phonics-based materials and trade books. Students read books and materials of various lengths and genres and content material from other subjects. Phonetic rules, decoding skills, and vocabulary development are emphasized in guided reading groups. Reading comprehension skills, including main idea, detail, sequence of events, time, and setting, are introduced and reinforced. Students begin to develop higher-level thinking skills around inferring information and predicting story outcomes.

Writing

The second-grade writing program focuses on supporting students as they learn that their writing has meaning and can be useful. Students begin to produce thoughtful, complete sentences with correct punctuation and capitalization. They begin organizing related thoughts into short, cohesive paragraphs. Fundamental language conventions such as
spelling rules, punctuation, capitalization, and sentence structure are reinforced through consistent application.

Math
Instruction in second grade goes into greater depth around problem-solving and numerical comprehension. In addition students work on counting, comparing, and writing numbers to 1,000 and adding, subtracting, multiplying and dividing using bar models. They learn measuring length, mass, and volume in metric units and classifying lines and surfaces. Students’ mastery of basic facts becomes automatic and real-life applications using money and time are further practiced.

Social Studies
The social studies program focuses on familiarizing students with their geographic place in the world. They continue to learn mapping skills and explore relational geography. Students are exposed to American holidays and customs, as well as the holidays and customs represented in the FASNY community. Through books, videos, and class discussion, students develop an understanding of themselves and their relationship to the world around them.

Science
Through observation, manipulation, and experimentation, as well as a variety of resources, second-grade scientists are gradually introduced to the scientific method and the importance of controlling variables and keeping records. They explore the relationship between air and weather. Students study animals to compare the diversity of life in different habitats. They learn about the three states of matter (solid, liquid, and gas), their physical properties, and how they change.

Art
Class projects challenge and further develop motor skills. Students learn new vocabulary and use new media. They continue to acquire knowledge of new techniques and applications. Major artists are introduced, and their contributions to the art world and history are shared with the students. Students use computer technology to add information to their work. They maintain an art journal throughout the year and participate in the art show in the spring.

Music
Music is taught in both French and English and through five different approaches: instrumental; vocal; cultural; music theory; and a multimedia project. Students learn basic notation and fingerings for the recorder and a percussion instrument. They focus on good pitch and breathing while learning French and American songs, are introduced to jazz, and continue their study of the instrument families and concepts of music theory.

Physical Education
Activities that build skills, strength, speed, coordination, self-confidence, and self-image form the basis of the games students play each week. Social and emotional development is addressed through the teaching of concepts such as cooperation, problem-solving, team-building, fair play, and respect for human differences.

Coding and Robotics
Starting in second grade, students are taught logical thinking, problem-solving, and computational thinking through coding using Code.org’s Computer Science Fundamentals course, which is specially designed for elementary school students and fully aligned with CSTA and ISTE standards.

Students are taught to perceive themselves as creators of technology and not just users. Using block-based programming, they start by learning the basics of writing algorithms and sequences in a fun, age-appropriate, play-like manner.
These concepts are reinforced by the robotics segment of the curriculum. Both coding and robotics are taught in a bilingual setting.

Educational Technology
Students participate in a 1:1 iPad program that includes a coding curriculum and the reinforcement of language skills through spelling and reading-comprehension programs. Classroom smartboards are used to provide additional online resources for support in content areas.

Grade 3 Curriculum
Reading
In third grade, students continue to learn new vocabulary, how to read for detail, and how to read for different purposes. Small-group work is emphasized as students learn how to synthesize information and distinguish between fact and opinion. They begin to use problem-solving skills to understand words and decode text deeply. Students identify root words and learn how prefixes and suffixes change the meaning of base words. They use problem-solving skills to make predictions about spelling patterns, which supports their phonics and vocabulary development. Students become independent readers who are able to apply multiple comprehension strategies to different kinds of texts.

Writing
In third grade, the emphasis is on internalizing the writing process for students and developing their independence as writers. Students use graphic organizers to develop their ideas. They begin writing drafts of their work and learn how to edit independently for spelling, grammar, and punctuation. Third-grade writers practice their skills in several genres, including personal narratives, book reports, the friendly letter, fiction and nonfiction writing, and poetry.

Math
In third grade instruction is focused around the following topics: building problem-solving skills and strategies; using models to solve real-world problems involving the four operations; making and interpreting data from bar graphs; identifying fractions of a set; finding angles and identifying lines; and understanding area and perimeter of figures.

Social Studies
The third-grade social studies curriculum focuses on map skills, specifically landforms, U.S. geography, and world geography. National holidays, current events, and historical figures are discussed and examined. Students learn about Native Americans and how they adapted to the different regions of America.

Science
In third grade, hands-on experiments and workshops are used to reinforce skills. The scientific method is emphasized to help young scientists predict outcomes, use observation, and reach conclusions. Specific topics include magnets, the solar system, the Earth, and simple machines. Students also learn about the Earth in relation to natural disasters, continental drift, weathering, and erosion.

Art
Class projects begin to include a broader vocabulary of the basic elements of art, encouraging students to develop their own style and introducing cultural aspects of art that can be applied to project work. Students become increasingly independent in the art studio and participate in interdisciplinary projects that enhance their academic program. All students continue to maintain their art journals and participate in the annual art show.

Music
Music is taught in both French and English and through five different approaches: instrumental; vocal; cultural; music theory; and a multimedia project. Students learn the notes of the staff and elements of solfege, music terminology in both languages, and good pitch and breathing techniques. They are introduced to Bach and Beethoven and continue their study of jazz. Each student creates a percussion instrument of their own and prepares a presentation on a music hero.

Physical Education
In third grade, the emphasis continues to be on the joy of movement and playing games, as well as the continued development of spatial awareness and coordination. Team sports are introduced with a skills-based approach and a small-games focus. Character education is reinforced throughout the year, especially during the cooperative games unit. Students are encouraged to demonstrate sportsmanship and inclusion during all activities.

Coding and Robotics
The Computer Science Fundamentals curriculum, which was introduced in second grade, continues in third grade. Programming concepts already learned are reinforced, while more advanced concepts, such as loops and events, are introduced. For the culmination of the semester-long course, students program a game, which they present to their parents. Coding and robotics are taught in a bilingual setting.

Educational Technology
Students have access to iPads in their classroom every day. These are used for coding class as well as for approved online resources to do research. Teacher-selected online resources further support the acquisition of language mechanics and reading-comprehension skills. Students are introduced to research skills via multimedia resources and the Internet.

Grade 4 Curriculum

Reading
The fourth-grade reading program incorporates texts of various lengths and genres. Students are taught strategies and skills for reading both fiction and nonfiction. They independently identify main ideas, important details, plot points, sequence, and setting as well as draw conclusions. Higher-order thinking skills such as inference, author’s intent, and character development are stressed. Developing vocabulary, enhancing general language fluency, and reading independently are goals for fourth grade. Students participate in multicultural book clubs with their peers. Oral language skills are further developed and reinforced through read-alouds, debates, and presentations.

Writing
Sentence and paragraph structure are broadened with greater attention to organization, detail, audience, and writing mechanics. Writing genres such as expository, persuasive, and descriptive are studied, with special attention to purpose, construction, and evaluation. Poetry and story-writing give students an opportunity to express their ideas creatively. Writing assignments are integrated in all other areas of academic exploration.

Math
In fourth grade instruction is designed around the following topics: building problem-solving skills and strategies; multiplying and dividing with 1-digit numbers and 2-digit numbers; using tables, graphs, data and probability; adding and subtracting with fractions and decimals; understanding relationships between fractions and decimals; and studying angles, line segments, area and perimeter. Class and student goals are determined with the students and the teacher to make sure the students remain challenged and engaged in mathematical thinking.
Social Studies
The fourth-grade curriculum fully integrates the main themes of geography—location, human and environmental interaction, human and physical features, and movement—with a study of American history. Economics, civics and government, culture, and society form the foundation for the study of European exploration, the settlement of North America, colonial life, and the Revolutionary War.

Science
Fourth-grade scientists investigate the observable characteristics of organisms, both plant and animal, to learn how the structures function in growth and survival. They study plant and animal adaptations, as well as the connections between human activity and plant and animal survival. Fourth graders use critical-thinking skills to conduct investigations and draw conclusions based on observation, communication, comparison, and organization.

Art
In fourth grade, the emphasis is on encouraging students to develop their own style while applying new media and techniques. New vocabulary, renowned artists and their work, and definitions of art are discussed in class critiques. Interdisciplinary projects in connection with social studies and science are part of the curriculum. Creating art on an iPad is introduced. All students continue to expand their personal art journal and contribute to the annual art show.

Music
Music is taught in both French and English and through five different approaches: instrumental; vocal; cultural; music theory; and a multimedia project. Fourth graders learn the notes of the staff (expanding the recorder range from low D to high F) and elements of solfege, good pitch, and proper breathing. They are introduced to opera, the Beatles, and contemporary pop music. Each student presents an oral and written report on a famous classical musician or composer.

Physical Education
The focus on team sports continues with the introduction of the racquet sport of Pickleball. In the team-sports units, the focus is on teamwork, strategy, and skill development. The Fitnessgram assessment program is introduced; at two different points in the school year, students perform a series of tests, with the goal of measuring their level of fitness against established standards.

Coding and Robotics
In fourth grade, the coding curriculum picks up the pace. Students are taught to perceive themselves as creators of technology. They not only learn new concepts, such as advanced loops and conditionals, but also to apply these concepts to solving problems in geometry and developing programs to write stories and create games. For the culmination of their semester-long course, students present their coding and robotics programs to their parents. Coding and robotics are taught in a bilingual setting.

Educational Technology
Students have regular access in their classroom to both a Chromebook and an iPad. Areas of focus in educational technology include coding, keyboarding skills, word processing, importing and exporting graphics, learning to use the Internet and web-based tools responsibly, Internet-based research skills, presentation skills, and the use of a local network. Students use Google Classroom as well as educational software and online resources.
Grade 5 Curriculum

Reading
The fifth-grade reading program uses a literature-based approach. Students read fiction and nonfiction and participate throughout the year in book clubs that utilize multicultural titles. The emphasis is on continued development of higher-level thinking skills. Comprehension skills focus on responding to literature and applying convergent and divergent questioning. Students continue to synthesize and summarize information. Vocabulary skills are further enhanced through connections made between individual reading and thematic studies. Oral language skills are developed through class discussion and a variety of classroom presentations.

Writing
Fifth-grade writers are encouraged to use detailed and specific vocabulary, complex ideas, and figurative application of learned literary devices. Students produce more developed and lengthier responses to written and presented material. They become adept in drafting, revising, and publishing a five-paragraph essay. Students explore creative and expository writing. Writing pieces are assessed formally and informally through a variety of checklists and rubrics specific to each assignment.

Math
In fifth grade instruction is designed around the following topics: multiplying and dividing with 2-digit numbers, fractions, mixed numbers, and decimals; solving equations and evaluating inequalities; finding the area of two dimensional shapes, and surface area and volume of three dimensional shapes; using ratios and percents, and finding the probability of an event; and applying properties of angles, triangles, and four-sided figures. Class and student goals are determined with the students and the teacher to make sure the students remain challenged and engaged in mathematical thinking.

Social Studies
The social studies program integrates economics, civics and government, culture, and society to form the foundation for an in-depth study of the historical and geographical elements related to the Founding Fathers, the Constitution, the creation of the American form of government, Westward Expansion, the Industrial Revolution, and the Civil War era.

Science
The science curriculum is based on investigations around pendulums, lifeboats, plane sense, and flippers that help students discover relationships through controlled experimentation. Fifth graders gain experience with the concepts of variables and systems (a set of objects that work together). Through these investigations, the scientific method is reinforced so that students learn to hypothesize, record, and graph information collected from their experiments.

Art
Class projects encourage creativity and individuality. They encourage students to use techniques in two-dimensional and three-dimensional art. Using additional equipment and new techniques enhances the challenge of each project. Students explore creating art with iPads and beginner photography. Throughout the year, each student maintains an art journal with written and graphic responses to each project conducted in class. All students contribute to the annual art show, which showcases their artistic development and the creativity of their accomplishments.
Music

Music is taught in both French and English and through five different approaches: instrumental; vocal; cultural; music theory; and a multimedia project. Fifth graders learn the notes of the staff (expanding the recorder range from low C to high C) and elements of solfege, good pitch, and proper breathing. They are introduced to several different musical forms, including the symphony, as well as periods of music—from Renaissance to Modern. They also create the choreography for a musical piece.

Physical Education

In fifth grade, students are challenged to increase their knowledge of the rules specific to each sport in order to enhance their basic strategies during play. Cooperative games and dance complement the team-sports units. Fifth graders participate in the Fitnessgram assessment twice during the year. In addition, they are encouraged to take part in the intramural sports program during recess and the annual Hoops for Hearts event.

Coding and Robotics

Critical thinking, abstraction, and computational problem-solving are at the heart of the fifth-grade coding and robotics curriculum. By this grade, students have a strong grasp of basic concepts and enjoy the challenge of learning to write programs with conditionals and functions. Coding and robotics are taught in a bilingual setting. The Computer Science Fundamentals course, which began in second grade, continues in sixth grade and culminates with a capstone project.

Educational Technology

Educational technology in fifth grade continues to include coding, developing keyboarding skills, and learning to use Google Classroom. Every student has regular access to a Chromebook and an iPad. Students use technology to deepen their research and presentation skills, and learn how to best use email with the use of a local network. Use of educational software and online resources reinforce concepts learned in the classroom.

Lower School French Studies

Cycle 2 (Grades 1, 2, and 3)

This is the cycle of Fundamental Learnings, when all learning is an inquiry into the world. Language skills are a priority and, in particular, the acquisition of the French language. During these years, the student builds his or her elementary knowledge, including speaking, reading, writing, and counting. Following the French program and continuing from the material covered in Kindergarten, a student’s acquisition of written and oral language becomes natural in the first and second grades. Mathematics skills also are introduced and reinforced in these grades. Technology, through the daily usage of iPads, smartboards, and laptops, is fully integrated in classroom work.

Reading and Writing

In first grade, students first learn to read in French. Building on the graphic skills developed in preschool, writing skills are taught in conjunction with the reading program. Writing, language skills, and oral expression are integrated as the basis of this cycle. The areas of study reinforce one another, and class projects, such as journals, are often assigned to support the acquisition of these skills.

Discovering the World

In Cycle 2, students discover the world around them and begin to explore notions of time and space, as they learn the basic elements of history and geography.
Mathematics

In Cycle 2, students consolidate their knowledge of numbers and develop their aptitude for arithmetical procedures (addition, subtraction, and multiplication). Performing mental operations and problem-solving are also emphasized. Understanding and applying the fundamental notions of measurement, including a comparison of the metric and American systems, are areas covered as well.

Science

Science is taught in either English or French, depending on the level of the student and criteria from the French and American programs. The themes covered in first grade are the human body (bones and muscles) and seeds and plants. In second grade, they are air, water, and the three states of matter, according to the requirements dictated by the French and American curricula.

Cycle 3 (Grades 4, 5, and 6)

*For grade 6, see Middle School section

In Cycle 3, students reinforce, consolidate, and expand their knowledge gained across the curriculum. They apply a new rigor and exactitude to their studies.

Reading/Writing

Students consolidate their reading skills, strengthening comprehension, vocabulary, and fluency. The goal for this cycle is to establish independent readers with a taste for a variety of literary genres and with well-developed basic research skills. At the same time, students develop their writing skills in order to produce increasingly complex, well-organized, and coherent written text.

History/Geography

History/geography studies provide students with a thorough knowledge of the world. They are encouraged to go beyond simplistic cause-and-effect relationships to build a deeper understanding of the world. Reflecting on current events around the globe, students are asked to become more aware of fundamental human rights. This leads to a better understanding of the rules of their social environment, including nation, community, family, school, and class.

Mathematics

By the end of Cycle 3, students have a mastery of addition, subtraction, multiplication, and division using integer numbers. They develop a range of mental procedures and are able to use the calculator when appropriate. They have a basic understanding of decimals, fractions, and ratios. Problem-solving is a central part of the curriculum. In geometry, the French curriculum gives students the basis to follow a geometry course in middle school. The notions of area and perimeter are also introduced.

Science

Students develop the scientific-method approach to investigating their environment. Science is taught in French and English, fulfilling the requirements of both the French and American systems. Themes taught include life science in third grade, matter and electricity in fourth grade, and the human body/energy and the environment in fifth grade.

Testing

FASNY organizes evaluations of students in grades 1 through 5. These evaluations mirror the ones that used to be recommended by the French Ministry of National Education. This testing allows the school to evaluate students’ ability in math and French by the end of Cycle 3. In grades 1 through grade 5, regular evaluations are carried out in class in order to assess the level of students’ abilities to learn new ideas and concepts.
MIDDLE SCHOOL

The Middle School—grades 6 through 8—is based at the Village campus, in Mamaroneck. Students have the choice to pursue the French-American Program or the International Program. In the International Program, all subjects are taught in English, with the exception of French and Foreign Language acquisition classes. In the French-American Program, in addition to five periods of English language study, students have two periods per week of Social Studies taught at the ELL, AELL, or Native level. The curriculum for students in the French American Program follows the standards set by the French Ministry of National Education. Courses taught in English adhere to the standards of the New York State Education Department and are comparable to those offered at top New York-area independent schools.

Grades and Report Cards

Number grades are used in the high school. A scale of 20 is used. Most teachers do not give grades of 20 unless the work can be graded completely objectively. As the students get older, grading standards become more rigorous.

Report cards are issued in December, March, and June. These official documents contain students’ periodic averages and teachers’ written observations for all subjects.

Languages

English Studies

Students with little or no English language background can enroll at any grade level, as English is taught at three levels: ELL (English Language Learners); Advanced ELL (good oral comprehension and speaking skills, developing reading and writing skills); and Native.

At the ELL level, students work on developing basic listening, speaking, reading, and writing skills. Students spend one to three years at this level before progressing to Advanced ELL, where they work on refining their reading comprehension and writing skills. Students may spend anywhere from one to three years in Advanced ELL before reaching the Native level. Students in Native-level classes follow a curriculum comparable to what is taught at the most competitive American independent schools in the region.

Foreign Languages

In seventh grade, all FASNY students choose between Spanish and German as a required third language, which they will study throughout high school. Elective classes are also available in Latin.

Library/Media Center

The Village campus has a library, which contains a sizable collection of French and English books and periodicals, as well as audio-visual equipment. Each student has the opportunity to visit the library and become familiar with its contents and services. The Librarian assists students with their research and helps them discover new authors and reading experiences.

Music, Theater, and Art

FASNY believes the arts are central to a well-rounded education. All students up to and including 9th grade follow a core music/drama and a core art class, and students can pursue art electives beyond that. The school also sponsors various student productions throughout the school year. These include musical-theater productions, plays, art exhibitions, assemblies, concerts, and presentations.

Enrichment and Support

Health and Well-Being

In addition to their intellectual growth and academic success, students’ well-being is central
to the school’s mission. The Dean of Students, School Counselor, and Main Office work closely with the faculty to monitor the health and safety of all students, including their psychological and emotional growth. The school organizes drug-prevention, conflict-resolution, and other health and wellness workshops, as well as programs devoted to cybersecurity, social media, and media literacy. School-wide assemblies showcase students’ achievements and offer a forum for visiting speakers, training workshops, and ongoing diversity and inclusion initiatives.

Counselors work with students individually or in groups. In case of an emergency, a student may meet with the counselor at any time. In addition to the counselor, a psychologist is available to all high school students by appointment. If a student appears at risk because of academic performance or psychosocial behavior, the school seeks input from all relevant constituents including the student, parents/guardians, teachers, school counselor, school psychologist, members of the administration, speech therapist, and anyone else working directly with the student. The team develops an action plan with strategies to support the student, academically and psychosocially. If further academic or psychosocial evaluation or therapy is necessary, a referral to outside resources can be made. Outside therapists and learning specialists who work with students are invited to share and collaborate with the school.

Excursions/Field Trips

Each class goes on several field trips per year. These enhance the curriculum and are an important part of the learning process. Typical trips include visits to museums, historical sites, concerts, and theater programs. Students in grades 6 to 8 also go on extended trips of two to four days or more.

Community Service

Students engage in the community beyond FASNY’s walls. Each school year, students complete a minimum of 10 hours of community service, often more.

Middle School Curricula

Grade 6 Curriculum

Art- FAP/IP

A great emphasis is placed on line, color and form while working with all the principles of design. Some projects are completed from observation; others call for students to draw from their own imagination. Students learn the fundamentals of color theory, which they will continue to build upon and apply in the coming years. Design, creating landscapes with depth in watercolor, frottage and memory, drawing people and working in clay will all be covered. Students learn about different kinds of artists and their methods at the beginning of most projects. Problem solving, recognizing and utilizing one’s own strengths and creative thinking are encouraged and underscored. This is a required course that is taught in English.

Biology- FAP

The sixth-grade science program follows the French curriculum but is taught in English. The students, therefore, experience the French inductive style of introducing content and the

Middle School Curricula

Grade 6 Curriculum

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Biology- FAP

The sixth-grade science program follows the French curriculum but is taught in English. The students, therefore, experience the French inductive style of introducing content and the
American constructivist approach to student-oriented learning. The program focuses on animal life and animal interaction with the environment. Students first learn about the scientific method and its application and later use it in exploring topics, including animal behavior, interactions of life (ecosystems, populations, and communities), the nonliving environment, conserving resources, plants (seed and seedless), plant reproduction and development, nutrition, classification, and cells.

In order to develop critical-thinking skills, an inquiry-based approach is used in the experimental part of the course. Consequently, students attain a solid understanding of topics with the ability to apply it to new situations. Students develop safe and effective laboratory skills. This course is offered to students in Native English. Students in ELL classes follow the same course taught in French.

**Computer Science- FAP/IP**

Students complete Code.org’s Computer Science Fundamentals course, which they started in the lower school. They further their understanding and use of programming concepts such as variables, functions, and conditionals. They explore CS topics such as Artificial Intelligence and get a glimpse into programming languages such as Javascript and Python. The culmination of the Computer Science Fundamentals course is a capstone project displaying their individual creativity and understanding of programming concepts.

**English 6 - Native Level- FAP/IP**

Using a wide range of literary genres, students are introduced to the basic concepts of literature. They work to develop skills in higher-level thinking, reading, writing, presenting, and listening. A central theme of the course is mythology in literature. To this end, students study world myths and write a five-paragraph research paper on a theme found in world mythology. As well, they read the novel *King of Shadows* as a way to prepare for Shakespeare’s *A Midsummer Night’s Dream* to conclude the year. There is intensive grammar work based on the texts *Rules of the Game 2 and 3*, as well as vocabulary study using *Wordly Wise 3000, Book 7*. This English course is taught at a native speaker’s level.

**English 6 - Advanced English Language Learners (AELL)**

The goal of this class is twofold: to act as a transition for students recently in ELL and to serve as a bridge to prepare them for Native English as soon as possible. The curriculum begins with direct vocabulary instruction as provided through the context of the reading materials. The class reads *A Wrinkle in Time*, *The Miracle Worker*, *Hoot*, and a variety of short stories. The class focuses on improving students’ vocabulary by furthering their understanding of new words and concepts. This course also focuses on strengthening the foundations of writing skills. Students work on developing clear and precisely written paragraphs on a variety of topics. The additional books used are *Essential Grammar Skills*, *Spelling level 6*, *The High Road to Reading Level 6* and other reading selections and websites. This course is taught in English.

**English 6 - English Language Learners (ELL)**

The goal of the ELL program is to facilitate the development of proficiency in the English language. This is accomplished by concentrating in four areas: grammar, writing, speaking, and listening for reading comprehension. The class spends time acquiring vocabulary of everyday life and learning the verb tenses to write and speak clearly. There are several short stories and world tales read as well as novels such as *Frindle*, *Dear Mr. Henshaw*, and *Crenshaw*. The books used in reading are Leveled Readers: Phoenix Learning Series, Dr.Spello and *Essential Grammar Skills*. Supplemental handouts from
ELL Library are used throughout the year. This course is taught in English.

**French- FAP/IP**

Sixth grade is the third and final year of Cycle 3 in the French teaching system. Students develop a deeper analysis of texts. This class is articulated around the following themes:

1. Monsters and Men, What Makes Us Human?
2. The Adventure Story
3. Creation Stories, Poetic Creation
4. Resisting the Strongest: Stratagems, Lies, and Masks

Students read classics of French literature and young-adult novels. They reinforce their oral and written linguistic skills with the study of grammar. This French course is taught at a native level.

**French Reading Workshop- FAP/IP**

This course is aimed at developing and encouraging regular reading as an autonomous and pleasurable activity for students, not only in an academic setting but also in their own lives.

Different works of various genres will be read in conjunction with the course themes.

**History – IP**

This World History course will explore ancient cultures and civilizations. At the outset, students are taught the basic themes of geography. Then, students will begin to study various early civilizations with an emphasis on civilizations in Africa, South & Southeast Asia, and Europe. Throughout the course, students are introduced to basic note-taking skills and develop writing and research skills, completing projects that reinforce essential research skills. One of the primary goals is to begin developing the students' critical thinking skills so that they can look at each civilization in a global context and to attempt to draw parallels between the ancient world and today's world.

**History and Geography- FAP**

This course focuses mostly on the ancient world. Students study Mesopotamia, Egypt, the people of the Bible, Greece, Rome, and the origin of Christianity. They also study the Christian empires at the beginning of the Middle Ages as well as an ancient civilization from the Asian continent (the Han dynasty in China or the Gupta dynasty in India). The geography portion of the course introduces students to world demography as well as human settlements (urban settlements, rural settlements, life near the seaside, or life in areas with natural constraints). A number of documents, including texts and photographs, are used for their historical and literary value. Emphasis is also placed on writing, both individual and assisted. This course is taught in French.

**Integrated Sciences- IP**

The 6th grade Integrated science course provides an even, well-integrated coverage of physics, chemistry, earth science, astronomy, and biology. Using the 5E instructional framework (Engage, Explore, Explain, Elaborate and Evaluate), it aims to promote inquiry, real world problem solving and student-led exploration in the classroom. Students are introduced to the fundamental behavior of matter and energy in living and nonliving systems. The scope and sequence include units that will cover cells and life, body systems, reproduction of organisms, energy in the atmosphere and human impact on the environment. Students develop safe and effective laboratory skills. This course is taught in English.

**Life Skills- FAP/IP**

The life skills class is organized as one more level of support for the students as they make the
move from lower school to middle school. In this course, students learn how to communicate effectively, recognize and manage their feelings, and make decisions. They learn how to formulate goals and manage themselves, their time, and their activities. Students acquire skills that allow them to apply their academic skills more effectively.

Mathematics- FAP

This course has three objectives: to reinforce the knowledge acquired in lower school; to prepare students to use specific mathematical methods and ways of thinking; and to develop the ability to use mathematics as a tool in everyday life and in other disciplines. Topics covered include the fundamental operations; fractions, ratios, proportionality, and percentages; and reading and representation of data through charts and graphs. In geometry: lines, line segments, angles, circles, and triangles; bisecting line of an angle; mediator of a segment; axial symmetry; quadrilaterals; cubes and rectangular solids; and the metric system in the computation of perimeters, areas, volumes, and time. Orientation, mobility, and geometric construction activities allow for the introduction of coding. This course is taught in French.

Mathematics- IP

In sixth grade, students will follow the Math in Focus curriculum, aligned with the curriculum offered at Fasny elementary school. The curriculum, based on Singapore math focuses on mathematical learning and highlights problem solving, using a concrete-pictorial-abstract learning progression anchored in real-world and hands-on experiences. The topics studied are ratios and proportional relationships, the number system (number sets, representation, order, fraction operations), expressions and equations (properties, functional relationships), coordinate plane, Geometry (lines, angles, shapes), Statistics and Probability (analyze and interpret data, express probabilities) Each topic is approached with the expectation that students will understand both "how" it works, and also "why." The curriculum will be complemented by topics from the American curriculum as well as French curriculum. This course is taught in English.

Math Projects- FAP

This hour of mathematics is dedicated to complement the French Mathematics curriculum with projects promoting an American approach. The class will cover three main topics: numbers, geometry and statistics. It will be taught in English and developed throughout the year in close cooperation with the French Math Teacher.

Music- FAP/IP

Students will learn basic fundamentals of music such as note reading, rhythmic patterns and theory. Concepts will be taught using percussion, ukulele and vocal training.

Students will also be introduced to humanities concepts such as art appreciation, ethnomusicology around world music, and social awareness through lyrics.

This class will be taught both in French and English. Students may elect to take either Music or Theatre Arts.

Physical Education-FAP/IP

Students are introduced to a variety of individual and team sports to encourage a lifetime of physical activity. A safe learning environment allows them to learn to compete fairly and accept winning and losing as a part of physical activity. Sports may include, but are not limited to, American football, volleyball, basketball, Pickleball, softball, baseball, kickball, handball, badminton, soccer and cooperative games. This course is taught in English.
Social Studies - Native and AELL- FAP

This course is the first half of a two-year sequence in world cultures. At the outset, students are taught the basic themes of geography. Once they have a working knowledge of them, they study early African civilizations. The next phase of the course focuses on the cultures of South Asia, including India, Pakistan, and Bangladesh, followed by the cultures of Southeast Asia. If time permits, we begin a study of Australia and Oceania. Throughout the course, students are introduced to basic note-taking skills and develop writing and research skills, completing projects that reinforce essential research skills. This course is taught in English and is for students of Native and Advanced ELL English levels.

Social Studies – ELL- FAP

Students study the five basic themes of geography and use them as an outline for exploring and learning about the ancient African civilizations. The students then study the five regions of the United States focusing more attention on the Northeast and New York. They learn about American culture while exploring many of the national parks as well as the more famous locations like Washington D.C. and New Orleans. Students spend time learning content specific vocabulary as well as learning to write short answer questions and test-taking skills in English. There are three projects using technology and websites such as Newsela and National Geographic. Time permitting, students are introduced to Mexico and Central America. Texts used in this course include World Explorer Tools and Concepts and All About the Place, Africa/The United States, and selected readings. This course is taught in English.

Theatre Arts- FAP/IP

This course introduces students to the world of theatre, from the functions of the role of theatre in world society, to the principles of acting, playwriting, and theatre creation. The primary focus of the class is to familiarize students with improvisation/ theatre games in order to introduce them to the performative experience. Students will perform both short scripted and devised plays in class, and will learn the process of “page to stage”. Students will receive basic instruction in characterizations and what it means to “play” with your fellow actors. An introduction to theatre terminology and concepts will also be integral to the course. Students will begin work on stage make up as the first of 3 theatre arts they will discuss in Middle School. The course will culminate in a theatre performance where the students will participate as actors. This course is taught in English. Students may elect to take either Theatre Arts of Music.

Grade 7 Curriculum

Art- FAP/IP

The seventh grade art curriculum builds upon elements covered in the sixth-grade art course, reinforcing skills such as shading, use of color, and three-dimensional form-making. Students learn how to create an armature in a mixed media sculpture project. Each year the seventh graders participate in an international Peace Poster Contest in which they learn to represent a theme of Peace through symbols, abstraction, colors and composition. They learn the basics of drawing from observation and atmospheric perspective and how to collaborate in a printmaking project. Students learn about different kinds of artists and their methods at the beginning of most projects. Problem solving, recognizing and utilizing one’s own strengths and creative thinking are encouraged and underscored. This is a required course that is taught in English.
**Art Option (Elective) - FAP/IP**

This course provides a more in-depth look at technical and conceptual approaches in art making. This curriculum builds upon skills taught in the required art curriculum while allowing for more complex projects. Students learn about different contemporary artists and how they utilize art techniques abstractly to address concerns about our environment and then create their own projects on these issues. Additional projects build upon using technical observational skills to create representational artworks. Skills for objectively discussing and critiquing artwork are covered and practiced. Problem solving, recognizing and utilizing one’s own strengths and creative thinking are encouraged and underscored. This course is taught in English.

**Biology and Earth Science - FAP**

The seventh-grade science program follows the French curriculum but is taught in English. Students experience the French inductive style of introducing content and the American constructivist approach to student-oriented learning. The first part of this course explores the human body and its physiology as well as environmental factors that affect it. In light of the scientific method, students explore topics such as cell processes, muscular activity, nutrients and digestion, the circulatory system, and the respiratory system. The second part of the course explores plant biology and Earth science, emphasizing the Earth in the solar system, Earth’s motion, and weather and climate. This course is offered to students in Native English classes. Students in non-Native classes follow the same course taught in French.

**Computer Science - FAP/IP**

Students are introduced to Code.org’s Computer Science Discoveries course, which has been designed with middle school students in mind and is fully aligned with CSTA and ISTE standards. Seventh graders are introduced to Web Design and learn the basics of HTML and CSS. They start to see themselves as programmers and are encouraged to think deeply about sharing and using content. At the conclusion of this module, students publish and present their personal webpages. This course is taught in English.

**English 7 - Native Level - FAP/IP**

The theme of this course is coming-of-age. We begin with the summer reading selection, The Boy Who Harnessed the Wind and selected short stories. Next, the class examines the process of “growing up” in Steinbeck’s The Red Pony and Taylor’s The Road to Memphis. We end the year with Zusak’s The Book Thief and Shakespeare’s Romeo and Juliet. Throughout the year there is an emphasis on in-class writing workshop experiences. Wordly Wise 3000, Book 8 is our vocabulary workbook; Warriner’s Elements of Writing is our grammar text. This English course is taught at a native level.

**English 7 - Advanced English Language Learners (AELL)**

The goal of this class is twofold: to act as a transition for students recently in ELL and to serve as a bridge to prepare them for Native English as soon as possible. The curriculum begins with direct vocabulary instruction as provided through the context of the reading materials. The class focuses on improving students’ vocabulary by furthering their understanding of new words to enhance their writing and annotating skills. It includes reading novels such as The Graveyard; The Giver; Number the Stars; Save Me a Seat as well as a variety of short stories. The students are introduced to literary terms, figurative language and sentence mastery as well as reinforcing
speaking and listening skills with presentations. The course also includes grammar, vocabulary-building, and readings that vary by need but can include Grammar Essential Skills, The High Road to Learning level 7. This course is taught in English.

**English 7 - English Language Learners (ELL)**

The main goal of the ELL program is to facilitate the development of proficiency in the English language. Students are taught basic communications skills, in addition to developing reading comprehension, composition writing, pronunciation of words, and building upon vocabulary and word usage. Strategies for teaching low-beginning students differ from those used for high-beginning students who have had prior exposure to the English language. Supplemental handouts from the ELL library are used throughout the year. Texts used in the course include Essential Grammar Skills Dr. Spello, Leveled Readers: Phoenix Learning Series and depending on the level of the class, one or two shorter novels, such as *Flora and Ulysses; El Deafo; The Amulet Series*; autobiographies and short stories. This course is taught in English.

**French- FAP/IP**

The seventh-grade French course is the first year of Cycle 4 in the French teaching program. This course will refine the reading and writing skills that students will use throughout their academic life and career and develop their literary and artistic knowledge. It represents an important building block toward the construction of the independent and critical thinking that will be required for high school. The course is articulated around the following themes:

1. Finding and constructing identity : The Journey and Adventure
2. Seeing and inventing worlds : Imagining New Universes
3. Living in society, being a citizen : Communicating with Others: Family, Friends, and Relationships
4. Changing the world : Heroes, Heroines, and Heroism
5. Optional unit : Is Man the master of Nature?

These themes allow literary texts to be presented as a window onto our world. Students also reinforce their oral and written language skills with the study of grammar. This French course is taught at a native level.

**French Reading Workshop- FAP/IP**

This course is aimed at developing and encouraging regular reading as an autonomous and pleasurable activity for students, not only in an academic setting but also in their own lives. Different works of various genres will be read in conjunction with the course themes.

**German I- FAP/IP**

Students in grade 7 will have the opportunity to start the German program in accordance with the guidelines of the French Ministry of National Education. The class meets two hours a week. Students will be exposed to the German language through activities in which they will speak and converse with classmates, listen to songs, and read and write short samples. In conjunction with these skills, students will acquire grammar and vocabulary basics as well as learn about aspects of German culture.

**History and Geography- FAP**

Students learn about an extensive period of history, from the Middle Ages to the 17th century. The course highlights the beginning of Islam, the first Arab empires (seventh to ninth centuries), the Middle Ages (11th to 15th
centuries), the Renaissance, and the 17th century in France. A sub-Saharan African empire is also studied (the Empire of Ghana, the Empire of Mali, the Empires of Songhai or Monomotapa). The geography portion of the course focuses on three topics: sustainable development; inequalities between countries from the “North” and countries from the “South”; and natural resources. Students are asked to analyze documents with an emphasis on writing. This course is taught in French.

**History - IP**

This World History course will focus on the cultures and civilizations of China, Japan, and the Middle East. Students will then explore the relationship between these areas and European powers within the context of the Crusades, feudalism, and the Age of Exploration. A variety of sources will be used: textbook readings, historical novels, world and regional maps, primary-source readings, and web-based activities using selected sites. Throughout the year students will advance their note-taking, writing, and research skills, as well as their analytical and critical thinking skills through a variety of assignments and projects. Current Events projects relating to unit study are an important part of the course.

**Latin I (Elective) - FAP/IP**

During this introductory year, students discover the Latin language and culture through a constant dialogue between the ancient and contemporary worlds. By studying authentic texts, students learn the principles of declension and conjugation. The course is organized around three themes: From Legend to History (the Roman Kingdom); Public Life/Private Life; and the Ancient Mediterranean World. It also offers an introduction to ancient Greek culture and language. This course is taught in French.

**Mathematics - FAP**

In seventh grade, students reinforce and extend their knowledge in the various areas of the curriculum and are introduced to logic and deductive reasoning through problem-solving (initiation to proofs). Topics covered include sequence of operations and the distributive property, sum, and difference of signed numbers; product of fractions; introduction to equations; ratios and proportionality; and reading and representation of data through graphs and charts using bar diagrams, histograms, and line diagrams. In geometry: angles and parallels; properties of triangles; medians and perpendicular heights in a triangle; bisecting line of an angle; mediator of a segment; circle circumscribed around a triangle; parallelograms; symmetries; and prisms and cylinders. The curriculum includes an introduction to coding (Tableur, Scratch, GeoGebra). This course is taught in French.

**Math Projects - FAP**

This hour of mathematics is dedicated to complement the French Mathematics curriculum with projects promoting an American approach. The class will cover three main topics: numbers, geometry and statistics. It will be taught in English and developed throughout the year in close cooperation with the French Math Teacher.

**Math - IP**

In seventh grade, students will follow the Math in Focus curriculum, aligned both with the curriculum offered at Fasny elementary school as well as high school. The curriculum, based on Singapore math focuses on mathematical learning and highlights problem solving, using a concrete-pictorial-abstract learning progression anchored in real-world and hands-on experiences. The topics studied are ratios and proportional relationships (direct and inverse...
relations, proportional reasoning, percents), the number system (rational and irrational numbers, place value, significant digits), expressions and equations (properties, function tables using spreadsheet), Geometry (angle properties, scaling, circle, area of simple shapes), Statistics and Probability (Venn diagrams, sampling) Each topic is approached with the expectation that students will understand both "how" it works, and also "why." The curriculum will be complemented by topics from the American curriculum as well as French curriculum. This course is taught in English.

**Music-FAP/IP**

Music in 7th grade is a continuity of concepts taught in 6th grade. Students will consolidate their percussion, ukulele and vocal skills. They will be introduced to composition and basic arranging and orchestration.

This class will be taught both in French and English. *Students can elect to take either Music of Theatre Arts.*

**Physical Education- FAP/IP**

Students build upon the foundation set in sixth grade and begin to apply problem-solving and conflict resolution to their activities. They learn to officiate games and apply rules when necessary. Sports include American football, volleyball, basketball, floor hockey, ultimate frisbee, soccer, softball, baseball, swimming, badminton, pickleball, handball, running, and cooperative games. This course is taught in English. This course is taught in English.

**Physics and Chemistry-FAP**

The physics and chemistry courses follow the curriculum of the French Ministry of National Education. This curriculum is divided into the following four components:

*Energy and Conversion - Forms of energy, energy efficiency of electrical-mechanical converter, building and design of basic electrical circuits (serial and bypass), notion of electric current, and electrical safety awareness*

*Structure and Transformation of Matter - Physical states of matter (microscopic analysis in the case of pure substance), experiment design of solubility and miscibility (homogeneous and heterogeneous), differentiating chemical change from physical change, perform tests to discover properties of chemical compounds, link between mass and volume for gas or solid*

*Motion and Interaction - Average speed (uniform motion), forms of interaction (contact forces and at-a-distance forces), and mechanical motion (straight line, circular, uniform, and accelerate motion)*

*Signals of Communication and Observation - Light, source of light, diffuse reflection, linear propagation and ray model of light, nature of signal, and nature of information*

**Social Studies - Native Level- FAP**

This course examines East Asia, the Middle East, Latin America, and Canada. The primary text is World Cultures; however, historical novels, world and regional maps, primary-source readings, and Internet activities with selected websites are also used. Current Events projects related to unit study are an important part of the course. This class is taught in English and designed for students of this level.

**Social Studies – AELL- FAP**

This level follows the Native course study in content (East Asia, the Middle East, Latin America, and Canada). Students are introduced to cultures through history, geography, cartography, economics, art, literature, music, and religion. Class projects are dedicated to discussion of current events and to guided research of assigned topics. Texts include World Studies: The Ancient World, World Explorer: Asia and the Pacific, World Explorer: The U.S.
and Canada, and World Explorer: Latin America. There are additional websites such as National Geographic, Newsela and selected readings included throughout the course. This course is taught in English.

**Social Studies – ELL-FAP**

Students learn about the ancient civilizations of China, India and Mesopotamia. The class spends time reviewing the five themes of geography and using the themes to understand how civilizations evolved. They also develop listening and speaking skills. Students are exposed to the same curriculum within their language capabilities as the Native and AELL social studies program. There are three projects using technology as well as slide presentations. Texts used include The Ancient World, World Explorer and the Pacific published by Holt.. The course uses videos and documentaries as well selected readings. The students spend time focusing on content specific vocabulary and improving their writing. This course is taught in English.

**Spanish I- FAP/IP**

Students in grade 7 will have the opportunity to start the Spanish program in accordance with the guidelines of the French Ministry of National Education. Students will be exposed to the Spanish language through activities in which they will speak and converse with classmates, listen to oral documents, and read and write short samples. In conjunction with these skills, students will acquire grammar and vocabulary basics as well as learn about cultural aspects of Spanish-speaking countries around the world. The course meets two hours a week.

**Theatre Arts- FAP/IP**

This course introduces students to the world of theatre, from the functions of the role of theatre in world society, to the principles of acting, playwriting, and theatre creation. The primary focus of the class is to familiarize students with improvisation/ theatre games in order to introduce them to the performative experience. Students will perform both short scripted and devised plays in class, and will learn the process of “page to stage”. Students will receive basic instruction in characterizations and what it means to “play” with your fellow actors. An introduction to theatre terminology and concepts will also be integral to the course. Students will begin work on stage set design as the second of 3 theatre arts they will discuss in Middle School. The course will culminate in a theatre performance where the students will participate as actors. This course is taught in English. *Student may elect to take either Theatre Arts or Music.*

**Grade 8 Curriculum**

**Art-FAP/IP**

This curriculum takes an in-depth look at color theory including colors relationship to emotions and culture and pursues the development of abstract representation. Students learn how to draw people through the theory of facial proportions collaged with observational blind contour drawings that use color to represent others emotions. They then apply this knowledge in clay busts that they learn to create after looking at several historical examples. Students learn about positive and negative space through tessellations as well and are introduced to linear perspective. Different kinds of artists and their methods are introduced at the beginning of most projects. Problem solving, recognizing and utilizing one’s own strengths and creative thinking are encouraged and underscored. This is a required course taught in English.

**Art Option (Elective)- FAP/IP**

This elective course builds upon skills taught in the required art curriculum while creating more
complex projects. Students learn more advanced technical skills and objective critiquing of artwork. There are in depth projects based off of a variety of artists and working from observation, utilizing color theory and abstracting. Projects range from drawing and painting to printmaking and mixed media sculpture. Students create projects in a wider array of material and techniques than in regular art. Additionally we look at and create self portraits, building upon the theme from the students required classes. Problem solving, recognizing and utilizing one's own strengths and creative thinking are encouraged and underscored. This course is taught in English.

Biology and Earth Science- FAP
This class follows the French curriculum in biology and geology. The year is divided into four parts that cover the Earth’s structure and the internal activity of the Earth, reproduction (asexual and sexual) in plants and animals, the human reproductive system, and human development (puberty, pregnancy). Earthquakes, volcanoes, plate tectonics, and the geologic time scale are explained using numerous modeling labs and short simulation visuals. The curriculum focuses on reinforcing specific critical thinking skills indispensable in the scientific methodology (such as data analysis and interpretation, communicating findings), as well as on inquiry-based investigations and experiments. This course is offered to students in Native English classes. Students in non-Native classes follow the same course taught in French.

Computer Science- FAP/IP
Eighth graders continue their work in Code.org’s middle school course, Computer Science Discoveries, which is fully aligned with CSTA and ISTE standards. Students work on Game Development, applying their knowledge and understanding of programming concepts to develop animations and games using JavaScript. This unit integrates math and geometry with programming constructs, while simultaneously allowing students to exercise and display their creativity. This course is taught in English.

English 8 - Native Level- FAP/IP
The theme of this course is the individual in society. The literature studied presents the individual as he or she is faced with ethical and moral dilemmas and issues of social justice, law, and governance. Texts used include Fahrenheit 451, To Kill a Mockingbird, Animal Farm, Lord of the Flies, and The Merchant of Venice or Julius Caesar. Readings may also include selected short stories, essays, and poems. Throughout the year there is an emphasis on in-class writing workshop experiences. Aside from the study of vocabulary in context, the workbook Wordly Wise 3000, Book 9 is used. The grammar and writing text used is Zaner- Bloser’s GUM: Grammar, Usage and Mechanics. This course is taught in English.

English 8 - Advanced English Language Learners (AELL)
As with the Native eighth-grade English course, the theme for Advanced ELL is the individual in society. The literature studied presents the individual as he or she is faced with ethical and moral dilemmas and issues of social justice, law, and governance. We begin the year with selected short stories, essays, and poems. Depending on the level of English proficiency, additional texts may include original, redacted, or leveled versions of the following: To Kill a Mockingbird: the play; When You Reach Me; Holes and a collection of short stories. Poetry by American poets such as Robert Frost and Maya Angelou and William Shakespeare is also read. Our grammar text is Essential Grammar Skills, The High Road to Reading Level 7, and Sentence Mastery level C. This course is taught in English.

English 8 - English Language Learners (ELL)
As most students in grade 8 have had prior instruction in English as a foreign language, they have a basis of grammar. The curriculum is, therefore, designed to build upon the skills of grammar and reading. As with other ELL classes, students are taught correct word usage, pronunciation, writing skills, and higher-level vocabulary. Texts used in this course include Essential Grammar Skills, Dr. Spello, Leveled Readers: Phoenix Learning Series, Sentence Mastery level B and supplemental material from the ELL Library. Literature studied includes El Deafo; Bud Not Buddy; The Amulet Series; Wonder; Short Stories Collections: Surprises, and poetry by Robert Frost, Emily Dickinson, and other American poets. This course is taught in English.

**French - FAP/IP**

The eighth-grade French course is the central year of Cycle 4 in the French teaching program. This course will refine the reading and writing skills that students will use throughout their academic life and career and develop their literary and artistic knowledge. It represents an important building block toward the construction of the independent and critical thinking that will be required for high school. The course is articulated around the following themes:

- Finding and constructing identity : Love in poetry
- Seeing and inventing worlds : Fiction and Reality
- Living in society, being a citizen : Confronting the values of individuals and society
- Changing the World : Fact and alternative fact in the Media
- Optional unit : The City, a place of possibility?

Students enrich their knowledge through interdisciplinary projects. This French course is taught at a native level.

**French Reading Workshop- FAP/IP**

This course is aimed at developing and encouraging regular reading as an autonomous and pleasurable activity for students, not only in an academic setting but also in their own lives.

Different works of various genres will be read in conjunction with the course themes.

**German II- FAP/IP**

This course focuses on the basics of German grammar, specifically cases and the indicative form. The course aims to develop linguistic, oral, and written communication. Students acquire vocabulary necessary to have a simple conversation and learn about the holidays in German-speaking countries.

**History and Geography- FAP**

Students learn about the history of the 18th and 19th centuries. The geography portion of the course focuses on globalization. Students learn to use maps, images, texts, and artistic works, as well as practice writing an argument. This course is taught in French.

**Latin II (Elective) - FAP/IP**

Students continue to develop their Latin language skills and cultural knowledge by studying original texts. The course is based on a constant dialogue between the ancient and contemporary worlds and organized around three themes: From Legend to History (the Roman Republic); Public Life/Private Life (leisure and entertainments); and the Ancient Mediterranean World (Rome vs. Carthage). This course also includes notions of ancient Greek culture and language. This elective course is taught in French.

**Mathematics-FAP**
Students learn to multiply or divide signed numbers and fractions, compute with positive or negative exponents, and transform algebraic expressions. They study linear equations and inequalities (which they use in problem-solving), proportionality (including graphing), percentages and rates, weighted averages in statistics, and probability (equi-probability, law of large numbers). Euclidean geometry contributes to developing in students the ability to use logic and deductive reasoning, as students are trained to write detailed proofs in the process of solving problems. Topics covered include the Pythagorean theorem, right angles and circles, distance and circle problems, cosine of an acute angle, dilations and reductions, area and volume of pyramids and cones, and geometric transformation (rotation, translation). Students start coding projects using Tableur, Scratch, and GeoGebra. This course is taught in French.

**Math Projects- FAP**

This hour of mathematics is dedicated to complement the French Mathematics curriculum with projects promoting an American approach. The class will cover three main topics: transformations, number properties, exponents and scientific notations. It will be taught in English and developed throughout the year in close cooperation with the French Math Teacher.

**Math-IP**

In eighth grade, students will follow the Math in Focus curriculum, aligned both with the curriculum offered at Fasny elementary school as well as high school. The curriculum, based on Singapore math focuses on mathematical learning and highlights problem solving, using a learning progression anchored in real-world and hands-on experiences. The topics studied are ratios and proportional relationships (slope of a line as a ratio, graph proportional relationships), the number system (prime factorization, scientific notations), expressions and equations (number patterns) Geometry (transformations, surface area and volume), Statistics and Probability (scatter plots, equation of linear models, two-way tables) Each topic is approached with the expectation that students will understand both "how" it works, and also "why." The curriculum will be complemented by topics from the American curriculum as well as French curriculum. This course is taught in English.

**Music- FAP/IP**

Music in 8th grade will have two distinct components. Theoretical and Practical.

On the theory aspect, students are introduced to the development of Western music as well as the medieval period through the beginning of the XXth century. They explore the historical timeline of music through chant, polyphony, homophony, sonata form, and symphonies using sound recordings and research of prominent figures and compositions of each period.

For the experimental aspect, students will work on composition techniques as well as arrangements by practicing keyboards in piano labs. Students can elect to take either Music or Theatre Arts.

**Physics and Chemistry-FAP**

In eighth grade, the physics and chemistry courses follow the curriculum of the French Ministry of National Education. The curriculum is divided into four components:

Energy and Conversion - Kinetic and gravitational potential energy, energy efficiency of mechanical-mechanical converter, notion of power, design of experiments on fundamental laws of electricity (for current and voltage)

Structure and Transformation of Matter - Matter change of states (microscopic analysis in
homogeneous mixture case), states changing
temperature, dissolution, solvent and solute
notion, notion of saturation of a solute in a
solution, notion of density, chemical equations,
stoichiometric relationships, chemical symbols,
chemical compounds, periodic table of
elements, understanding of the origin of matter,
distance units of measurement (International
system of units, light years, etc., and conversion
of the same)

Motion and Interaction - Mechanical action,
notion and modelling of force (arrow, vector),
deepening on average speed for uniform motion

Signals of Communication and Observation -
Deepening on ray model of light

**Physical Education- FAP/IP**

Students train and compete with the aim of
improving individual skills and endurance in
both team and individual sports. Evaluations
and grades are based on comprehension and
execution. Healthy-living habits are reinforced
with an emphasis on nutrition and exercise.
Sports include American football, volleyball,
basketball, floor hockey, ultimate frisbee,
soccer, softball, baseball, swimming, badminton,
pickleball, handball, running, and cooperative
games. This course is taught in English.

**Social Studies (All Levels) - FAP**

This class introduces students to the early
United States history, from pre-colonial times to the
pre-Civil War era. The first third of the course
looks at the internal struggles the settlers faced
in creating new societies that maintained their
old ways of life, while attempting to eliminate
the problems they endured in Europe. The
middle third focuses on the concept of “forming
a nation.” The final third looks at the
tumultuous early years of the United States.
Students are expected to begin mastering the
skill of note-taking as well as develop advanced
research and writing skills. In addition, many
classes are taught in a discussion format to
encourage students to look at a situation with a
critical eye. Students in the Native-Level course
will also develop their research and analytical
skills through a research paper. In the spring,
students take an extended field trip to study in
and around Colonial Williamsburg, the premier
living museum of America’s colonial era.

**Social Studies-IP**

This class introduces students to the early
History of the Americas. While the course will
place an emphasis on the 13 English Colonies
and the early history of the United States, it will
also explore the colonial history and early years
of other areas within both North and South
America. Students will begin by exploring
indigenous populations such as the Aztecs,
Incas, and Mayans. They will then move to
European colonization of the Americas, its
impact on the indigenous populations, and the
growing tensions between the colonists and
their mother countries. Students will then study
the independence movements that took place
throughout the Americas, beginning with the
American Revolution. Students will look at the
early years of the United States and the
constitutional foundations established during
the time period. Finally, students will look at the
emergence of other new nations throughout the
Americas and the relationship between the
Americas and the rest of the world. Students are
expected to begin mastering the skill of note-
taking as well as develop advanced research and
writing skills. In addition, many classes are
taught in a discussion format to encourage
students to look at a situation with a critical eye.
Students will also develop their research and
analytical skills through a research paper. In the
spring, students take an extended field trip to
study in and around Colonial Williamsburg, the
premier living museum of America’s colonial
era.

**Spanish II- FAP/IP**
In grade 8, students continue taking Spanish as a second language. Through thematic topics of daily life, the Spanish program follows a progression that combines pragmatic goals, linguistic objectives, and cultural awareness. In order to be able to communicate fully, students learn to understand, speak, read, converse in, and write in the target language. The course meets three hours a week.

Theatre Arts- FAP/IP

This course introduces students to the world of theatre, from the functions of the role of theatre in world society, to the principles of acting, playwriting, and theatre creation. The primary focus of the class is to familiarize students with improvisation/theatre games in order to introduce them to the performative experience. Students will perform both short scripted and devised plays in class, and will learn the process of “page to stage”. Students will receive basic instruction in characterizations and what it means to “play” with your fellow actors. An introduction to theatre terminology and concepts will also be integral to the course. Students will begin work on costume design as the final of 3 theatre arts they will discuss in Middle School. The course will culminate in a theatre performance where the students will participate as actors. This course is taught in English. Students can elect to take Theatre Arts of Music.
HIGH SCHOOL

The High School, which includes grades 9 through 12, is located at the Harbor campus in Mamaroneck. In grades 9 and 10, students have the choice to pursue the French-American Program or the International Program. In the French-American Program, in addition to five periods of English language study, students have two periods per week of Social Studies taught at the ELL, AELL, or Native level. In the International Program, all subjects are taught in English, with the exception of French and Foreign Language acquisition classes.

In grades 11 and 12, students choose between the French Baccaulaureate and the International Baccaulaureate. Students in the French Bac may opt to also follow the OIB program (International Option of the French Baccaulaureate), a rigorous course of study in which English, History, and Geography are taught in English by American teachers. In the IB Diploma program, all classes are taught in English, except for French. The IB Programme is available to both francophone and non-francophone students and to those who are fluent in English or are, at minimum, proficient English Language Learners.

College Counseling

FASNY students pursue university studies all over the world. The co-directors of College Counseling for universities in North America and the United Kingdom are responsible for helping parents and students with the application process to American, Canadian, and British colleges and universities. They organize college evenings, meet with parents and students for individual counseling sessions, and promote FASNY and its students to universities in the United States, Canada, and the United Kingdom. The school’s PRIO (personnel-ressource en information et orientation) is responsible for helping parents and students with the application process to French universities and classes préparatoires. He meets with parents and students for individual counseling sessions and organizes informational evenings.

PSAT and SAT, or ACT - Students applying to universities in North America can take the Scholastic Aptitude Test (SAT) in English and Mathematical Reasoning in 11th and/or 12th grade. Students in the 11th and 12th grades can take the SAT at various times during the school year. Students also take the PSAT (Preliminary Scholastic Aptitude Test) in 10th and 11th grade in order to prepare for the SAT. The ACT, an alternative to the SAT, is a content-based achievement test in English, mathematics, reading, science, and writing. NB: reporting of standardized test scores is becoming less and less frequently requested by U.S. colleges.

Grades and Report Cards

Number grades are used in the high school. A scale of 20 is used, with 15-20 being an A+. Most teachers do not give grades of 20 unless the work can be graded completely objectively. As the students get older, grading standards become more rigorous.

Report cards are issued in December, March, and June. These official documents contain students’ periodic averages and teachers’ written observations for all subjects.

For FASNY students applying to U.S. colleges and universities, an American transcript is provided. The French number scores are converted to letter grades. This system is used by all French high schools in the United States.

Languages

English Studies

Students with little or no English language background can enroll at any grade level, as English is taught at three levels: ELL (English Language Learners); Advanced ELL (good oral comprehension and speaking skills, developing reading and writing skills); and Native.
At the ELL level, students work on developing basic listening, speaking, reading, and writing skills. Students spend one to three years at this level before progressing to Advanced ELL, where they work on refining their reading comprehension and writing skills. Students may spend anywhere from one to three years in Advanced ELL before reaching the Native level. Students in Native-level classes follow a curriculum comparable to what is taught at the most competitive American independent schools in the region.

Foreign Languages

Students who have studied a foreign language in Middle School can keep studying it throughout high school. Students can also take electives in Latin and/or in a third foreign language, either at FASNY (for Arabic) or by enrolling in the CNED distance learning program.

Library/Media Center

The Harbor campus has a library, which contains a sizable collection of French and English books and periodicals, as well as audio-visual equipment. Each student has the opportunity to visit the library and become familiar with its contents and services. The Librarian assists students with their research, guides them in projects like the IB Extended Essay, and helps them discover new authors and reading experiences.

Music, Theater, and Art

FASNY believes the arts are central to a well-rounded education. All students up to and including 9th grade follow a core music/drama and a core art class, and students can pursue art electives beyond that. The school also sponsors various student productions throughout the school year. These include musical-theater productions, plays, art exhibitions, assemblies, concerts, and presentations.

Enrichment and Support

Health and Well-Being

In addition to their intellectual growth and academic success, students’ well-being is central to the school’s mission. The Dean of Students, School Counselor, and Main Office work closely with the faculty to monitor the health and safety of all students, including their psychological and emotional growth. The school organizes drug-prevention, conflict-resolution, and other health and wellness workshops, as well as programs devoted to cybersecurity, social media, and media literacy. School-wide assemblies showcase students’ achievements and offer a forum for visiting speakers, training workshops, and ongoing diversity and inclusion initiatives.

Counselors work with students individually or in groups. In case of an emergency, a student may meet with the counselor at any time. In addition to the counselor, a psychologist is available to all high school students by appointment. If a student appears at risk because of academic performance or psychosocial behavior, the school seeks input from all relevant constituents including the student, parents/guardians, teachers, school counselor, school psychologist, members of the administration, speech therapist, and anyone else working directly with the student. The team develops an action plan with strategies to support the student, academically and psychosocially. If further academic or psychosocial evaluation or therapy is necessary, a referral to outside resources can be made. Outside therapists and learning specialists who work with students are invited to share and collaborate with the school.

Extracurricular Activities

In addition to our rigorous academic programs, students enjoy a rich array of extracurricular
activities. Most students become involved in our diverse program, which includes the yearbook, school newspaper, literary magazine, mathematics club, filmmaking club, drama club, Model United Nations, chorus, a cappella group, rock band, and other activities. Interscholastic varsity and JV teams include boys and girls soccer, basketball, rugby, cross-country, track and field, and tennis, as well as girls volleyball and softball and boys baseball.

Excursions/Field Trips

Each class goes on several field trips per year. These enhance the curriculum and are an important part of the learning process. Typical trips include visits to museums, historical sites, concerts, and theater programs. Students in grades 9 to 12 also go on extended trips of three or four days or more.

Internship/Work Experience

High school students complete a five-day internship at a company, organization, or other workplace in their 9th or 10th grade.

Community Service

Students complete a minimum of 50 hours of community service over the course of their high school experience. Some students exceed 100 hours, qualifying them for the President’s Volunteer Service Award. No more than five in-school community service hours per year can count towards the required 50 hours.

Presidential Volunteer Service Award

Students who complete 100 or more hours of service within a 12-month period qualify to receive the Presidential Volunteer Service Award. In order for the school to send the application, the hours need to be completed during the previous school year, between May 1 and the following April 30. If a student completed 100 hours from, for example, January to January or September to September, s/he will have to bring back copies of the signed community service sheets for that period to Mrs. Giordano. Please note that our system allows us to compute only those hours submitted from May 1 to the following April 30.

High School Curricula

Grade 9 Curriculum

Students choose to follow either the French-American program or the International program, in which mathematics and the sciences are taught in English. Many ninth-grade courses co-seat students, regardless of the program. Program-specific courses are designated below, next to the course name.

Art 9

Projects assigned build upon the skills developed in the middle school art program’s techniques and concepts with a focus on the students representing themselves and their ideas. Students learn a process of creating completely abstract artworks from observation, based on techniques drawn from several contemporary artists and review the principles of art. Students draw and shade in depth from observation and use art to convey a collaborative message to their community. They learn how to create an armature for a mixed media sculpture and finish it with plaster and paint. Printmaking is covered with first looking at different artists and the roles of printmaking. This relief print process requires in depth thinking about positive and negative space. Different kinds of artists and their methods are introduced at the beginning of most projects. Problem solving, recognizing and utilizing one’s own strengths and creative thinking are encouraged and underscored. This is a required course taught in English.

Art Option 9 (Elective)

This elective course builds upon skills taught in the required art curriculum while creating more in depth long term projects. Students practice
drawing from life and how to visualize and work from complex scenes. Abstraction through a focus on utilizing the elements of forms and color schemes, to create a narrative is covered. Students learn how to work from observation without being on sight by creating mixed media models of a space. They learn the different conceptual and technical applications of this technique by looking at a variety of artists. Then they use these models as a basis for an in-depth drawing, painting, and Photoshop project. Problem solving, recognizing and utilizing one's own strengths and creative thinking are encouraged and underscored. This course is taught in English.

**Biology 9 (French-American Program)**

The program is organized around four core topics. In Human Diversity and Unity, students study the origin of an individual’s characteristics, the origin of human diversity, chromosomes, and genetic information (DNA). Human Evolution and History of the Earth focuses on the early formulation of the theory of evolution of living things through geologic time (genetic explanations, natural selection, mass extinctions, and classification of living things). The Infectious Disease and Protection of the Organism component of the course leads students to understand the way the body reacts to contamination (immune system, AIDS, and allergies). The course includes a study in Human Responsibilities in Health and Environmental Issues. This course is taught in French.

**Computer Science**

Building upon the Computer Science Discoveries course taught in middle school, students are introduced to Computer Science Principles in high school. This is an AP course which is taught over a period of two years and fully aligned with CSTA, ISTE, and College Board standards.

Ninth graders continue to add to their repertoire of programming skills and learn the basics of developing applications using Code.org’s App Lab platform. In doing so, students are encouraged to see themselves as problem-solvers, using technology to solve personal and broader social problems. In this course, students apply their understanding of programming concepts towards designing and programming several applications. Other topics which comprise part of this course are the design and working of the Internet, Digital Data, Big Data, Artificial Intelligence, and Privacy Implications. This course is taught in English.

**English 9 - Honors**

In this challenging course, students will study a wide range of texts and genres within American literature from the 17th century to the present, covering fiction, poetry, drama, nonfiction, and film. They will have many opportunities to improve their writing through diverse expository and narrative formats and to practice their oral-presentation skills through a variety of assignments, ranging from debates to dramatic monologues. Moreover, there will be a wide range of creative assignments. Students will engage in early preparation for the PSAT exam through vocabulary development (Wordly Wise) and regular attention to grammar through frequent writing practice. The texts and authors covered include, but are not limited to, *Slaughterhouse-Five* by Kurt Vonnegut, “Of Plymouth Plantation” by William Bradford, “Young Goodman Brown” by Nathaniel Hawthorne, The Catcher in the Rye by J.D. Salinger, the Declaration of Independence by Thomas Jefferson, The Great Gatsby by F. Scott Fitzgerald, essays by Emerson and Thoreau, “Song of Myself” by Walt Whitman, *Into the Wild* by Jon Krakauer, poetry of the Harlem Renaissance, *A Raisin in the Sun* by Lorraine Hansberry, and *A Confederacy of Dunces* by John Kennedy Toole. This course is taught at a native level.
English 9 - Advanced English Language Learners (French-American Program)

This class, taught entirely in English, aims to help students transition to native English level learning by developing advanced language skills as well as literary analysis skills. The curriculum includes grammar, usage, and vocabulary instruction, using the grammar text Focus on Grammar and Wordly Wise 3000 workbook. Fiction and non fiction works studied include American short stories, *Flying Over 96th Street, A Raisin in the Sun;* and *Fahrenheit 451.* Students also develop speaking and listening comprehension skills through independent and group research projects and presentations.

English 9 - English Language Learners (French-American Program)

This class, taught entirely in English, aims to help students develop the skills of grammar, writing, and reading. Students are taught correct word usage, grammar, pronunciation, writing skills, and higher-level vocabulary using the text book *Focus on Grammar* by Fuchs, Bronner and Westheimer and Wordly Wise 3000 is used for direct vocabulary instruction. Literary texts studied in this course include graphic novels such as *March* by John Lewis, novels such as *The Giver* by Lois Lowry, *The Absolutely True Diary of a Part-Time Indian* by Sherman Alexie, poetry and short stories.

European History and World Geography I (French-American Program)

This course covers the period from 1914 to the present. The geography portion of the course focuses on France and the European Union. Students are asked to think critically when analyzing documents. They are expected to write a page-long essay using their personal knowledge as well as information presented in a variety of documents. The civics education portion of the course exposes students to questions related to citizenship as they study current events in today’s world. This course is taught in French.

World History 9 (International Program)

The ninth-grade World History course provides the foundation for the IB Diploma program history course and, with 10th-grade U.S. History, offers students the skills and content they need to carry them into their post-secondary studies. The World History curriculum is designed to increase students’ understanding of the contemporary world by encouraging an informed and balanced reflection on the past. The course illustrates and explores the six key concepts of history in the IB—change, continuity, causation, consequence, significance, and perspective. Content is organized thematically and chronologically, emphasizing the patterns and connections of human interaction across cultures from the early modern period to today. Case studies from different regions encourage students to view topics from multiple perspectives. For example, they will study the origins, development, and impact of the Industrial Revolution in Britain, as well as the development of industrialization in Japan and the mineral revolution in South and southern Africa. They will thus understand both the development of societies over a given period and how different groups experienced technological, social, and political developments through inter-regional connection.

Research Skills and Global Literacy 9 (International Program)

This project-based course focuses on developing inquiry and critical-thinking skills in the humanities. Students will gain mastery in research techniques and track current events with an eye toward recognizing geo-economic and geo-political patterns applicable to their studies in World History. Through group inquiry projects, students will explore the intersections of various disciplines, such as the role of science
and technology in history, demography and the environment, or historical perspectives through art. This class meets once a week.

French 9 Literature and Composition - Honors (French-American Program)

The ninth-grade French course is the final year of Cycle 4. The students prepare for the Diplome National du Brevet. They reinforce and deepen their language skills. The course covers a variety of literary genres and different texts, emphasizing self-expression, the ability to argue, science fiction, and media literacy. The course allows students to make connections with other subjects through artistic, historical, and philosophical questioning. This French course is taught at a native level. There are four main themes:

- Finding and constructing identity: Knowing Yourself (autobiography)
- Living in society, being a citizen: Denouncing the Ills of Society (theater)
- Seeing and inventing worlds: A poetic vision of the world (poetry)
- Changing the World (science fiction): Individuals and Power
  Optional unit: Progress and Scientific Dreams

Reading Workshop

This course is aimed at developing and encouraging regular reading as an autonomous and pleasurable activity for students, not only in an academic setting but also in their own lives.

Different works of various genres will be read in conjunction with the course themes.

French 9 (International Program)

The International program is intended primarily for students wishing to eventually take the International Baccalaureate (IB) examination. The objective of the course is to expose students to a wide variety of media (literature, documentaries, movies, newspapers) from around the world and to develop their critical-thinking skills to prepare them for the demands of the IB French Literature and Culture course. Knowledge is reinforced through oral interactions, collective debates, and presentations. Similar to the IB, assessments of written work are graded according to the following criteria: comprehension; analysis; and language. Non-native French speakers will find in this course a favorable framework in which to progress in French. Native speakers will be able to approach new notions of language and literature in a dynamic and interactive way. The curriculum is built around units focusing on four literary genres—novel, theater, poetry, and media—and students study complete works as well as excerpts. The grading is out of 20. Final exams assess the students on the concepts acquired during the school year through both written and oral tests.

German III

Students in this course are expected to expand their grammar, including verbs in the indicative and subjunctive forms, passive and active voice, and complex sentences, to gain a better understanding of the language. They also learn the history of Germany from 1933 to 1990.

Language Acquisition: French or Spanish (International Program)

Students are introduced to the study of either the French or Spanish language within a cultural context; the emphasis is on the development of all four communication skills of reading, writing, speaking, and listening through the learning of language mechanics. The one-year course will be articulated around global themes such as:

- Individuals and Society: Daily routines, education, food and drink, personal details, appearance and character, physical health, relationships, shopping
• Leisure and Work: Employment, entertainment, holidays, media, sport, technology, transport

• Urban and Rural Environment: Environmental concerns, global issues, neighborhood, physical geography, town and services, weather

Grades for this course will be determined by class participation and oral presentations, written quizzes and exams, homework assignments, and the reading of a variety of documents, including visuals.

The Common European Framework of Reference (CEFR) defines levels of proficiency that allow students' progress to be measured at each stage of learning and on a life-long basis. It describes in a comprehensive way what language learners have to learn in order to use a language for communication and what knowledge and skills they have to develop to be able to communicate effectively. The description also covers the cultural context in which language is set. The framework defines levels of proficiency as follows: A1 - Beginner; A2 - Elementary; B1 - Intermediate; B2 - Upper Intermediate; C1 - Advanced; C2 - Mastery. At the end of ninth grade, students should attain the A2 (Elementary) level.

Latin III (Elective)

Students expand their learning of the Latin language and culture. At the end of ninth grade, students will have mastered enough essential grammatical skills (morphologic and syntactic) to understand and translate a short and accessible Latin text. They also will be able to put a literary text into its historical and cultural context. Four themes are studied: From Legend to History (The Roman Empire); Familial, Social, and Intellectual Life; and the Mediterranean World (especially the relationship between Rome and Greece). The course also includes notions of ancient Greek culture and language. This elective course is taught in French.

Mathematics 9 (International Program)

This course will prepare students for the IB Mathematics Higher Level and Standard Level courses. In grade 9, the focus is on the concepts of number, algebra, and coordinate geometry at the core and extended levels. Objectives include:

• Encouraging the development of mathematical knowledge as a key life skill and as a strong basis for more advanced study

• Building students' confidence by helping them develop competence and fluency with mathematical concepts, methods, and skills, as well as a feel for numbers, patterns, and relationships

• Placing a strong emphasis on solving problems and presenting and interpreting results

• Gaining an understanding of how to communicate and reason using mathematical concepts

Integrated Mathematics 9 (French-American Program)

This course has three objectives: to reinforce and extend the knowledge acquired in previous grades; to enable students to use specific mathematical methods and ways of thinking; and to develop the ability to use mathematics in everyday life and in other disciplines.

Topics covered include an introduction to functions (generalities and graphs), the linear and affine functions, and the slope formula; mean, median, and quartiles in statistics; probability (tree diagram); computations with square roots; algebra (factoring and distributing); linear equations and inequalities; and systems of two linear equations. Topics in geometry include trigonometry of a right
triangle, the Thales theorem, dilation and reduction, inscribed angles, regular polygons, sections of solids (prisms, cylinders, cones, and spheres), and areas and volumes. Coding projects include creating programs designed to complete a simple mission or solve a simple problem using Tableur, Scratch, and GeoGebra. This course is taught in French.

**American Math: Geometry (French-American Program Elective)**

This course is equivalent to an American grade 10 course. Topics covered include essentials of geometry, logic, proving statements in geometry, congruence of line segments, angles and triangles, transformations and the coordinate plane, geometric inequalities, slopes and equations of lines, parallel lines, quadrilaterals, the geometry of three dimensions, similarity, geometry of the circle, locus, and construction. This course is taught in English. Except in rare cases, Algebra I is a prerequisite.

**American Math: Algebra IB**

This is the second year of the Algebra IA/IB course. It is designed for students who took Algebra IA in grade 8.

**Music 9**

Students continue their study of Western music learning thoroughly into the 20th century. They also study jazz, and popular forms such as rock-and-roll, techno music using listening examples, sound recordings, and research of notable figures and compositions. Students will be encouraged to perform in small ensembles using various instrumental combinations. This course is taught in both French and English. *Students may elect to take either Music or Theatre Arts.*

**Theatre Arts**

This course introduces students to the world of theatre, from the functions of the role of theatre in world society, to the principles of acting, playwriting, and theatre creation. The primary focus of the class is to familiarize students with improvisation/ theatre games in order to introduce them to the performative experience. Students will perform both short scripted and devised plays in class, and will learn the process of “page to stage”. Students will receive basic instruction in characterizations and what it means to “play” with your fellow actors. An introduction to theatre terminology and concepts will also be integral to the course. Students will work to develop a full production design concept (costume, set, sound, and make up) for a play of their choice. The course will culminate in a theatre performance where the students will participate as actors and designers. This course is taught in English. *Students may elect to take either Theatre Arts or Music.*

**Physical Education**

Students begin to understand the importance of physical-skills improvement relevant to a chosen sport. They learn good-practice habits and are encouraged to engage in as many activities as possible. Sports include soccer, American football, floor hockey, judo, badminton, pickleball, swimming, running, basketball, & dance. This course is taught in English and is considered the bridge year for entering the High School PE program.

**Physics and Chemistry 9 (French-American Program)**

In the ninth grade, the physics and chemistry courses follow the curriculum of the French Ministry of National Education. The curriculum is divided into four components:

Energy and Conversion - Use of mathematical relation of kinetic and gravitational potential energy, use of mathematical relation of power, law of conservation of energy, Ohm’s law, residential energy consumption calculation
Structure and Transformation of Matter -
Deepening of balancing chemical equations,
acid-base character of substance, notion of ionic
compound, pH measurement (hydrogen ions),
chemical reaction between acid solution and
metals, order of magnitude of the universe,
universality of scientific laws in the universe

Motion and Interaction - Newton’s gravitational
law, weight, gravity

Signals of Communication and Observation -
Acoustic signal, propagation of sound
properties, notion of frequency, infrasound and
ultrasound, use of light or sound for information
transmission

**Sciences in the International Program**

All students in this program take chemistry,
biology, and physics over the course of two
years. In ninth grade, students take two
trimesters of chemistry and one trimester of
biology. In 10th grade, they will take a second
trimester of biology and two trimesters of
physics. These courses will prepare students for
the IB biology, chemistry, and physics courses.

**Chemistry 9**

Course content includes measurement and data
processing, the particulate nature of matter,
atomic structure and the periodic table of
elements, stoichiometry, chemical reaction
rates, redox, and organic chemistry.

Course Objectives:

- Encourage a wider interest in chemistry as a
  science and promote the understanding and
  relevance of this science in our daily lives
- Develop the student’s ability to properly use
different experimental techniques that help
observe, analyze, and interpret chemical
reactions in the laboratory
- Equip students with the knowledge and skills
  that will help them succeed in future studies

**Biology 9 and 10**

This course is taught over two semesters in a
span of two years, 9th & 10th grade.

The course focuses on developing a broad
general understanding of the study of life (=biology) by expanding students’
comprehension of how science works and is
applied to acquire knowledge about the natural
world. It will prepare students for the IB Biology
Diploma Program taught in 11th and 12th grade.

The main goals are to:

- Learn to love science and apply
  knowledge acquired in biology class
  outside of the classroom in everyday
  life.
- Develop scientific investigation skills
  through inquiry-based laboratory work:
critical thinking, understand the
  scientific approach, observe
  (macroscopically and with a
  microscope), use previous knowledge,
  question, research from literature, etc.
- Acquire and demonstrate knowledge
  and understanding of scientific facts,
  concepts, and methods.
- Analyze and evaluate data, techniques,
  and scientific explanations.
- Communicate effectively using
  scientific language.
- Develop awareness for accuracy,
  precision, objectivity, and integrity.
- Recognize the utility, ethical
  considerations, and limitations of
  science.
- Attempt to answer some of the most
  fundamental questions of our existence

The topics covered include organization of life,
reproduction and development, genetics,
Evolution, microbiology and infectious disease
spread, plants, Ecology.

**Spanish III**
In grade 9, students review the material covered in the previous year. They enrich their vocabulary as well as their verb tenses in order to describe their plans, give commands, express a possibility or doubt, and make hypothetical statements. Through a variety of oral exercises, students work on their speaking and conversation skills. They also improve their reading and writing abilities through a variety of topics and continue to explore the different cultures of Spanish-speaking countries. The course meets three times a week.

United States History I
(French-American Program - Native Level)

This course covers United States history from the pre-Civil War era to the Great Depression. The first third of the course is an in-depth study of the issues that resulted in the Civil War, the Civil War itself, and the Reconstruction Era that followed. The middle third explores the changing world due to the Industrial Revolution and the immigration policies that developed in the United States as a result. The final third builds on earlier themes as the nation moves into the 20th century and becomes a major player on the world stage. Students are expected to master note-taking during classes taught primarily in a discussion format. Throughout the course, students continue to develop their familiarity with historical data and geopolitical terminology while focusing on the key historical thinking skills of comparison, causation, and continuity and change. They also develop their research and analytical skills through a research paper. This course is taught in English at a native level.

United States History I
(French-American Program - AELL and ELL)

Students gain an understanding of the changes that took place in the United States from the nation’s founding to its emergence as a world power in the early 20th century and learn to identify the key individuals and events that were agents of these changes. They work to develop critical-thinking skills to analyze the transformations that took place during this period in the nation’s history while also focusing on strengthening their ability to understand, read, and write in English. Students practice public speaking by participating in class discussions and giving oral presentations and develop their research and analytical skills through research projects. This course is taught in English at an AELL to ELL level, as needed.

Grade 10 Curriculum

Art I (Elective)

Using a problem-solving approach, students improve their drawing skills, gain a deeper understanding of color, and learn to organize more meaningful compositions. They create drawings, collages, prints, paintings, and sculptures in order to communicate personal ideas and solve visual problems. One important area of focus involves the depiction of pictorial space. Overlapping, linear, and atmospheric perspective and the rendering of volume are explored to equip students with the tools they need to construct pictorial space with clarity and confidence. Students undertake both in-class and out-of-class projects and discuss their works during class critiques. In addition, they begin to build a portfolio that shows the range, depth, and quality of their artistic knowledge. This course is taught in English.

Biology/Earth Science (French-American Program)

The biology and Earth science curriculum at the high school aims to provide a solid foundation in science. The course has three major objectives:

- Acquire and deepen the mastery of scientific knowledge and reasoning modes and, more broadly, attain a scientific education
based on the fundamental concepts of biology and geology

- Develop critical thinking and civic education by understanding the current world and its evolution through a scientific lens
- Prepare students for the demands of higher education in the sciences and STEM jobs

To achieve these objectives, the biology and Earth science curriculum in grade 10 is organized around three major themes:

1) Earth, Life, and Evolution: Through research and rigorous analysis, science builds a coherent understanding of the Earth, the history of its formation, its current state, and its evolution.
2) Contemporary Issues of the Planet: Students learn about major issues facing humanity in the 21st century, such as environmental and sustainable development, resources, and risk management.
3) The Human Body and Health: Selected themes give students a better understanding of the body and how it interacts with the environment in order to develop a global approach to public health challenges. In this field, the exercise of critical thinking is increasingly important in the face of mounting doubts and the questioning of scientific facts.

This course is taught in French.

Computer Science

Students continue their work in Code.org’s Computer Science Principles, an AP course that is fully aligned with CSTA, ISTE, and College Board standards. In this course, students are expected to design and program several applications. Other topics which comprise part of this course are the design and working of the Internet, Digital Data, Big Data, Artificial Intelligence and Privacy Implications. In doing so, they are encouraged to see themselves as problem-solvers, using technology to solve personal and broader social problems.

Tenth graders review the programming concepts learned in 9th grade and work on the remaining portion of the CSP course before taking the AP test in May. This course is taught in English.

Economics and Social Sciences (French-American Program)

This course has an exploratory curriculum that seeks to expose high school students to new disciplines they have not encountered in their prior studies. It aims to provide students with the principles of economics, sociology, and political science essential to the education of all citizens who seek to understand the workings of the economy and society in which they live; to enable them to discover a new academic discipline and help them make enlightened decisions regarding their 11th- and 12th-grade education; and to provide them with some essential concepts and ways of thinking about economics and sociology that will facilitate their studies as high school juniors and seniors and, later, at the university level. This course is taught in French.

English 10 - Honors

This is a genre studies course in English Language Arts. Each trimester will have a different focus. Trimester one will be a study of the novel and non-fiction narratives. For the second trimester, students will examine drama. And for the third one, they will explore poetry. During the year as a whole, students will develop and hone their close reading skills and learn to apply them effectively to the writing of sophisticated analytical essays. They will also engage in expository and creative writing activities that are inspired by the literature they read. At the conclusion of each unit, students
will be assessed in a variety of forms, such as presentation, debate, film, and formal exam. Additionally, students will have weekly vocabulary lessons and bi-weekly quizzes on those lessons. Literary texts studied will include, but not be limited to: *Oryx and Crake* by Margaret Atwood, *The Picture of Dorian Gray* by Oscar Wilde, *The Fire Next Time* by James Baldwin, *Between the World and Me* by Ta-Nehisi Coates, *Hamlet* by William Shakespeare, *Death of a Salesman* by Arthur Miller, *Fences* by August Wilson, and selected poems by William Wordsworth, Samuel Taylor Coleridge, John Keats, Robert Frost, Dan Pagis, Sylvia Plath, W.H. Auden, Sonia Sanchez, and James Dickey. This English course is taught at a native level.

**English 10 for Advanced English Language Learners (French-American Program)**

This class, taught entirely in English, aims to help students transition to native English level learning by developing advanced language skills as well as literary analysis skills. The curriculum includes grammar, usage, and vocabulary instruction, using the grammar text *Focus on Grammar and Wordly Wise 3000* workbook. Fiction and non fiction works studied include American short stories, *Flying Over 96th Street, A Raisin in the Sun;* and *Fahrenheit 451.* Students also develop speaking and listening comprehension skills through independent and group research projects and presentations.

**French 10 Literature and Composition - Honors (French-American Program)**

This course is the first in a two-year sequence focused on the content and exercises required for the oral and written Baccalaureate exam in French (EAF), which students take at the end of 11th grade. Theater, the novel, and persuasive essays are some of the main themes studied in the context of selected classics of French literature. Students are trained in critical thinking, analytical reading and writing, the crafting of literary commentaries, creative writing, and essay writing. This French course is taught at a native level.

**Reading Workshop**

Different works of various genres will be read in conjunction with the course themes.
French 10 (International Program)

The French 10 course of the International program is the second year of the curriculum. Students will deepen their knowledge of the concepts studied in grade 9, in particular their critical-thinking skills and subtleties unique to literature and the French language. In writing, vocabulary is reinforced and becomes more precise. The goal is to prepare students for the IB written and oral evaluations of 11th grade (oral presentation, text analysis, and written composition), and the focus will be on method.

The genres studied and discussed include the novel, poetry, and drama, as well as polemical discourse in the media. Works will be selected according to the IB guidelines for French-Speaking World Heritage or translations. New students can easily join the course, whose cultural and literary openness allows them to use previous skills and knowledge and to go at their own pace.

German IV

In grade 10, students work on their linguistic skills (grammar and vocabulary), their use of the language to communicate for different purposes (listening, speaking, debating, reading, writing), and their cultural exposure. The course explores a variety of themes that may include: arts (especially music); sports; careers and professions; taking care of the planet; how to represent oneself and others. The course meets three times a week.

Latin IV (Elective)

Students study the Roman world through three of these four themes: Mankind and the Animal Kingdom; Mankind and the Divine; The Self and Others; and the Mediterranean Sea: Travel, Exploration, and Discovery.

Texts highlight the essential aspects of the political, historic, moral, literary, and artistic cultures of the time. Syntax and morphology are strengthened, and students are expected to expand their vocabulary using a Latin-French dictionary as a resource. Connections with other texts from the French and English curricula are made as often as possible. The course also covers notions of ancient Greek culture and language. This course is taught in French.

Integrated Mathematics 10 (French-American Program)

Topics covered in this course include number sets and their properties, as well as variations and graphing of the following functions: linear, reciprocal, quadratic, cubic, square and homographic. Also, algebraic and rational expressions, factoring, and algebraic and graphic resolution of nonlinear equations and inequalities. Statistics and probability: percentage increase and decrease, measuring central tendency and dispersion, frequencies distribution, simulation, and sampling and range of fluctuations. Sample space, events, equi probable spaces, finite probability spaces, intersection, and union of events. In Euclidean geometry: trigonometry of a right triangle, plane and space properties, plane configurations, straight lines. The emphasis is placed on training in logical reasoning in analytic and vector geometry: equation of a line, vectors (coordinates, sum, difference, multiplication by a real number, norm, determinant), and systems of linear equations. Algorithms: basic (variables, input, output, expressions, functions), conditional statements, iterative loops, pseudo-code. Application in programming with Python language. Set mathematical notation and logical reasoning (connectors, negation, truth tables, propositions, logical implication). Graphing calculator, geometry software. This course is taught in French.
American Math 10 - Advanced/
Algebra II (Elective)

Algebraic Methods: Fractional exponents, operations with algebraic fractions, fractional and radical equations
Functions: Composing two functions, inverse of a function and its graph
Circles: Inscribed angles, measuring angles, finding chord, tangent, and secant-segment lengths
Transformations: Line symmetry, rotation, translation, dilation, composing transformations, reflecting and rotating using coordinates
Trigonometry: Functions, identities, equations, formulas, solving triangles

This elective course is taught in English.

Math 10 (International Program)

The objectives of this course are to develop curiosity about and enjoyment of mathematics as well as an understanding of the concepts, principles, and nature of the subject; to communicate mathematics clearly; and to cultivate logical and creative thinking in problem-solving in order to instill confidence in applying mathematics to a variety of real-life situations. Units of study include solving equations and inequalities; trigonometry; managing money; curved graphs; symmetry and loci; ratios, rates, and proportions; transformations and matrices; statistics; probability; and a stock market project applying math to financial markets. We will also complement this course with Algebra 2 topics such as polynomial arithmetic, exponential models and logarithms.

Physical Education

Students are introduced to the French physical education program, in 5 different sports. Students are made aware of the physical requirements for good evaluations and given the instruction necessary to improve skills and techniques to achieve maximum results. Sports offered may include, but are not limited to, endurance running, volleyball, basketball, badminton, dance, relay running, soccer, orienteering, rock-climbing, acrobatic gymnastic, swimming and lifeguard-training. This course is taught in French and English.

Physics and Chemistry 10
(French-American Program)

This course is a continuation of the 19th-grade curriculum. It promotes experimental practice and modeling, offering a concrete and contextualized approach to concepts and phenomena, and is structured around four themes: Constitution and Transformations of Matter; Movement and Interactions; Energy: Conversions and Transfers; and Waves and Signals. This course is taught in French.

Spanish IV

In grade 10, students work on their linguistic skills (grammar and vocabulary), their use of the language to communicate for different purposes (listening, speaking, debating, reading, writing), and their cultural exposure. The course explores a variety of themes that may include: arts; sports; careers and professions; taking care of the planet; how to represent oneself and others. The course meets three times a week.

Sciences in the International Program

All students in the International Program take chemistry, biology, and physics over the course of two years. In ninth grade, students took two trimesters of chemistry and one trimester of biology. In 10th grade, they take a second trimester of biology and two trimesters of physics.
**Biology 9 and 10**

The course focuses on developing a broad general understanding of biology by expanding for students how science works and is applied to acquire knowledge about the natural world.

**Course Objectives:**
- Acquire and demonstrate knowledge and understanding of scientific facts, concepts, and techniques
- Develop scientific investigation skills through inquiry-based laboratory work
- Analyze and evaluate data, techniques, and scientific explanations
- Communicate effectively through the language of science
- Develop awareness for accuracy, precision, objectivity, and integrity
- Recognize the utility, ethical considerations, and limitations of science

Course content includes laboratory skills, the organization of life, biochemistry, cell structure and function, photosynthesis, reproduction and development, genetics, evolution, homeostasis in organisms, ecology, biodiversity, and the positive and negative human impact on the environment.

**Physics 10**

This course will develop skills that will prepare students for any of the IB science courses:
- Solving quantitative problems
- Collecting, analyzing and presenting data in tabular form
- Using spreadsheets to perform calculations
- Using graphs to present, analyze, and interpret data

Students will build a foundation of content knowledge that will be particularly useful for those who choose IB Physics. Topics will include:
- Forces and Newton’s laws
- Oscillations and waves
- Gravity
- Radioactivity and the structure of matter

**United States History II (French-American Program -Native Level)**

This course covers United States history from the Great Depression through the beginning of the 21st century. The first third of the course is an in-depth study of the emergence of the United States as a global hegemon. The middle third explores the economic and social issues and challenges that the United States faced during the 1960s and 1970s. The final third deals with the rise of the conservative movement, the end of the Cold War, and the United States’ place in the New World Order. Throughout the course, students continue to develop their familiarity with historical data and geopolitical terminology while focusing on the key historical thinking skills of comparison, causation, and continuity and change. Students cultivate their ability to analyze and interpret documents (press articles, cartoons, photographs, memoirs, maps, charts, etc.) as well as hone their research skills through a major research project. Texts include traditional textbooks as well as non-fiction works such as *When the Emperor Was Divine* by Julie Otsuka, *The Things They Carried* by Tim O’Brien, and *Nickel and Dimed: On (Not) Getting by in America* by Barbara Ehrenreich; documentaries; and primary sources. This course is taught in English at a native level.

**United States History II (French-American Program -AELL & ELL)**

Students gain an understanding of the changes that took place in the United States from its emergence on the world stage in the early 20th century through the end of the Cold War and the beginning of the 21st century with a focus on both foreign and domestic policy and events. Students will work to develop critical-thinking skills to analyze the transformations.
that took place during this period in the nation’s history while also focusing on strengthening their ability to understand, read, and write in English. Students practice public speaking by participating in class discussions and giving oral presentations and develop their research and analytical skills through research projects. This course is taught in English at an AELL to ELL level, as needed.

United States History 10 (International Program)

This course covers United States history from its founding through the beginning of the 21st century. Students will take a close look at the Constitution and how its changing interpretation has affected the country throughout its history, including the power of the federal government vs. states’ rights, the role of the government in the economic and social lives of its citizens, and the changing role of the United States in the world. Throughout the course, students will learn to think historically by making comparisons, either between perspectives represented in texts and sources; among individuals, events, and developments; or across periods of time and locations. Students cultivate their ability to analyze and interpret documents (press articles, cartoons, photographs, memoirs, maps, charts, etc.). While the course is intended to provide students with a thorough understanding of American history, it also situates key events, ideas, and figures within a more international context. Texts include traditional textbooks as well as non-fiction works such as Profiles in Courage by John F. Kennedy, and The Things They Carried by Tim O’Brien; documentaries; and primary sources. This course is taught in English.

In the 11th and 12th grades, students choose to prepare for either the International Baccalaureate Diploma program or the French Baccalaureate exam.

The French Baccalaureate is offered with a choice between two main programs: the social sciences and economics-based track (ES) and the science-based track (S). Students in 12ES are asked to choose a concentration in economics or mathematics. Students in 12S are asked to choose a concentration in one of the following subjects—biology/natural sciences, mathematics, or physics/chemistry. Students whose English is at a native level have the possibility of taking the French Baccalaureate exam with the International Option (OIB). In addition to taking exams in French, these students also take parts of the Baccalaureate exam in English, which requires taking an English literature honors course and a history/ geography honors course taught in English.

Students in the International Baccalaureate Diploma Program must take the three core courses—Theory of Knowledge, Creativity/Activity/Service, and Extended Essay—as well as six classes balanced among the main areas of the curriculum (groups), offered at the Higher or Standard levels.

French Baccalaureate Program

English 11 - Honors OIB

This advanced, college-level reading and writing course is the first year of the two-year English OIB program. It devotes a significant portion of study to an in-depth analysis of the various literary genres—fiction, poetry, drama, and nonfiction—as recommended by the International Option of the French Baccalaureate. In addition to studying a wide range of genres, students also will work on developing their writing skills through a variety of writing activities, including formal analytical
essays, creative-writing pieces, and short responses.

Course texts feature works from the 19th to the 21st centuries by authors from around the globe and may include such works as *Frankenstein* by Mary Shelley, *Heart of Darkness* by Joseph Conrad, *A Streetcar Named Desire* by Tennessee Williams, *The Handmaid’s Tale* by Margaret Atwood, *Interpreter of Maladies* by Jhumpa Lahiri, *A Room of One’s Own* by Virginia Woolf, “Stranger in the Village” by James Baldwin, and a selection of poems by Elizabeth Bishop, Sylvia Plath, and Adrienne Rich. This course is taught at a native level.

**English 11**

This non-OIB English course, in addition to preparing students for the Baccalaureate exam, is a college-preparatory discussion-based class for native or near-native English-speaking students who are interested in attending American, Canadian, or other English-language universities. Students engage in the close reading and analysis of literary works, including novels, plays, short stories, and poetry. In addition to literary study, students continue to develop their writing skills, perfect their grammar, and build their vocabulary. Students develop these skills through a variety of writing activities, including journals, short responses, creative-writing pieces, and analytical essays.

The literary texts and authors covered include *Fences* by August Wilson, *Brave New World* by Aldous Huxley, *Never Let Me Go* by Kazuo Ishiguro, the poetry of T. S. Eliot, and the short stories of Hemingway, Lovecraft, and Le Guin. This course is taught at a native level.

**English 11 LV1 for Non-Native Speakers**

This course involves intensive work in improving aural/oral skills as well as reading and writing skills, as students begin preparation for the English LV1 Baccalaureate examination. They review English grammar in association with the Test of English as a Foreign Language (TOEFL), work on vocabulary development, and read a selection of British and American novels, plays, poetry, and nonfiction (essays, journalistic works, etc.). Texts and authors may include, but are not limited to, *Elements of Writing, Wordly Wise, Never Let Me Go* by Kazuo Ishiguro, *Anthem* by Ayn Rand, *Fahrenheit 451* by Ray Bradbury, *The Great Gatsby* by F. Scott Fitzgerald, and *The Maltese Falcon* by Dashiell Hammett. This course is taught in English.

**Economics and Sociology 11 - Honors**

This course focuses on three central themes that connect all societies. Commercialism economics examines the functioning of the competitive market, the impact of externalities, the financing of economies, and money from various perspectives, such as that of the household or business, and also through diverse economic activities such as production, consumption, financing, and the management roles played by both markets and governments. Students also study contemporary society from a social perspective by analyzing cultural phenomena such as socialization, the nature and scope of different social groups, and the problem of deviance. The political science theme focuses on the formation and expression of public opinion and on the vote as an individual or collective matter, distinguishing among the nation-state, the federal state, and government systems. Two close examinations complete the course, with reflections on the contribution of insurance and social protection to risk management in developed societies and on the organization and governance of companies. This course is taught in French.

**European History and World Geography III - Honors**

The history portion of the course begins with a study of economic growth, globalization, and
social changes since the mid-19th century. Students next examine the 20th century's main conflicts (the two World Wars and the Cold War) by positioning them in their respective conflicts, then study colonization and decolonization, and, finally, examine the relationship of the French people to the concept of Republic (from the Third Republic to the Fifth Republic). In the geography portion of the course, the year begins with a study of local territories. Students gain an in-depth knowledge of the French and European territories within the context of globalization. They also work on questions related to sustainable development. In both history and geography, students learn to analyze and interpret documents—such as press articles, cartoons, photography, maps, graphs, etc.—and to draft well-structured, well-written essays. This course is taught in French.

Modern World History and Geography I - Honors OIB

This is the first course in a demanding two-year history/geography program that covers many of the events and themes that shaped the modern world. Chronologically, the history program begins with the French Revolution and ends with World War I. Thematically, students gain an understanding of the foundations of modern political and economic history, through their study of the Dual Revolution, Western Imperialism, the long-term causes of World War I and its immediate aftermath. They probe topics such as modern democracy, foreign policy, and economic and social transformations through case studies from France and the United States. In the geography portion of the course, students are introduced to the concept of globalization, through the study of modern cities and rural areas and how they create productive exchange networks at different spacial scales: locally, regionally, and globally. In both history and geography, students develop their ability to analyze and interpret documents (press articles, cartoons, photographs, memoirs, maps, charts, etc.) and to write college-level essays. They also hone their research and writing skills through a research paper. There is an emphasis on oral presentation in both history and geography.

Grade 11 History, Geography, and Political Science I Honors*

This course uses a multidisciplinary approach to analyze and develop an understanding of the world’s complexity by adopting convergent historical and geographical approaches to the situations, events, and contexts. The curriculum also offers a political approach to global questions, with a historical dimension at the national and international levels. As such, it makes connections with another specialty course: economic and social sciences.

The historical perspective highlights change and continuity, as well as similarities and changes over time, and gives context to the role of each stakeholder. The geographical analysis allows students to understand the connections and influences between place and space and the diverse agents that act upon them. Political science brings a comparative approach to the study of international relations and political concepts, regimes, and stakeholders (including international organizations). Political geography puts into perspective the conflicts and consequences among various territories through the scope of their rich and diverse histories.

The five main themes of the course are Understanding Political Regimes: Democracy; Analyzing the Active Relationships Among International Powers; Studying the Political Divisions of the World: Frontiers; A Critical Analysis of the Varying Sources and Types of Communication; and Analysis of the Relationship Between States and Religions.

French 11 Literature and Composition - Honors

This is the final French studies course for high school students and culminates with them taking the Baccalaureate exam (EAF). The
curriculum builds on themes first presented in the 10th grade, including critical thinking, essay writing, creative writing, and literary commentaries. It is organized around the following topics: theater; poetry; applying the art of rhetoric to an investigation of human nature; and narration. This course is taught in French at a native level.

**Grade 11 Analysis, Calculus, and Probability I**
Topics covered in this course include:
Sequences: Explicit formula, recursive formula, direction of variation, arithmetic, geometric sequences and series, limit at infinity
Calculus and Analysis: Exponential function, quadratic and cubic functions, global and local study of numerical functions, limit, graph, tangent to the curve, derivative function (sum, product and quotient of functions)
Probability: Probability distribution, variance, standard deviation, range of fluctuation, conditional probability, Bayes’ formula, independent events
Algorithms: Basic (variables, input, output, expressions, functions), conditional statements, iterative loops, pseudo-code, list, application in: programming with Python language
This course is taught in French.

**Grade 11 Analysis, Advanced Calculus, Vector Geometry, & Probability I Honors**
Topics covered in this course include:
Sequences: Explicit formula, recursive formula, direction of variation, arithmetic, geometric sequences and series, limit at infinity
Algebra and Trigonometry: Polynomials, quadratic equations and inequalities, unit circle, radian, trigonometric equations and formulas, law of sines, law of cosines
Calculus and Analysis: Exponential function, quadratic and cubic functions, global and local study of numerical functions, limit, graph, tangent to the curve, derivative function (sum, product and quotient of functions)
Vector Geometry: Basis, direction vector of a line, Cartesian equation of a line, oriented angle, determinant, scalar product
Probability: Probability distribution, variance, standard deviation, range of fluctuation, conditional probability, Bayes’ formula, independent events
Algorithms: Basic (variables, input, output, expressions, functions), conditional statements, iterative loops, pseudo-code, list, application in: programming with Python language, set mathematical notation and logical reasoning (connectors, negation, truth tables, propositions, logical implication), graphing calculator, geometry software. This course is taught in French.

**Physics-Chemistry 11 Honors**
This course is a continuation of the 10th-grade curriculum. It promotes experimental practice and modeling, offering a concrete and contextualized approach to concepts and phenomena, and is structured around four themes: Constitution and Transformations of Matter; Movement and Interactions; Energy: Conversions and Transfers; and Waves and Signals.

**Integrated Sciences: Biology, Chemistry, Physics 11**
This course looks to develop general skills through the practice of scientific reflection. The curriculum has several themes:
1) A Long History of Matter: The immense diversity of matter in the universe originated from a limited number of elementary particles. From the Big Bang to the development of life, these particles became organized into more and more complex systems.
2) The Sun, Our Source of Energy: The Earth receives most of its energy from the Sun, which determines the temperature on its surface, as well as climates and seasons. It allows photosynthesis to happen in plants, which, in turn, nourish other living beings.
3) Earth, a Unique Planet: Amid the multitude of planets, Earth is unique and has been a central object of study for much of history. At first, obvious evidence and non-scientific narratives led to naive representations. Then, scientific knowledge developed through a long process, often peppered with controversy, to lead to a greater understanding of the formation, age, and movement of our planet.

4) Sound and Music, Information Carriers: Human beings perceive the world through their senses, in particular through their auditory sense. Auditory awareness started with surrounding sounds coming from nature. Then humans began to combine sounds harmoniously and learned to make music, an art that has a close relationship to mathematics. Today, computer science makes it possible to digitize sounds and music.

Biology/Earth Sciences Specialty Course I

The objectives of this course are similar to the Biology/Earth Science course (see page 39). While the themes of study (Earth, Life, Evolution) are the same, this course offers a more in-depth exploration of them to further develop students’ scientific knowledge and understanding of the world around them.

Spanish V

In grade 11 and 12, students are tasked to perfect their practice of the Spanish language in order to become more independent in speaking and in writing. The main goals include being able to understand an exchange on a variety of topics, partaking in a spontaneous conversation, and detecting the salient information of a written text. The course explores at least six out of the following eight different themes: identities and exchanges; public and private spaces; art and power; citizenship and virtual worlds; fiction and reality; scientific innovations and responsibilities; diversity and inclusion; land and memory. The examinations of the French Baccalaureate occur in both grade 11 and 12 ("contrôle continu"), and are facilitated by the teacher and the School. This course meets two hours a week.

German V

In grade 11 and 12, students are tasked to perfect their practice of the German language in order to become more independent in speaking and in writing. The main goals include being able to understand an exchange on a variety of topics, partaking in a spontaneous conversation, and detecting the salient information of a written text. The course explores at least six out of the following eight different themes: identities and exchanges; public and private spaces; art and power; citizenship and virtual worlds; fiction and reality; scientific innovations and responsibilities; diversity and inclusion; land and memory. The examinations of the French Baccalaureate occur in both grade 11 and 12 ("contrôle continu"), and are facilitated by the teacher and the School. This course meets two hours a week.

Foreign Languages, Literatures, and Cultures: Spanish Specialty Course I

This specialty course is designed for students in grade 11 who wish to further their mastery of the Spanish language, discover the joy of reading literature Spanish, and benefit from a deeper exposure to cultures it accesses. Through a variety of resources (such as literary works, films, articles etc), the course explores different themes (movement of men and ideas; memory and exile), all the while asking students to engage in a wide range of receptive, productive, and interactive tasks. This course meets four hours a week.

Physical Education

To optimize Baccalaureate results, students practice, over the course of two years, four
sports chosen from among those already learned in grade 10 or earlier. These include, but are not limited to, lifeguarding, running (2 x 800 meters), basketball, soccer, fitness, relay running, rock-climbing, volleyball, and badminton. This course is taught in French and English.

**Art II (Elective)**

Students complete a variety of assignments that require them to think more creatively and work more independently. In the process, they begin to develop their own visual voices. They take part in group critiques of their work and art history discussions, as well as enjoy other experiences that help them develop an awareness of their own artistic sensibilities and concerns. The ultimate goal of the course is to prepare them technically and conceptually for further study of art at FASNY and in college. Students focus on improving their ability to render complex natural forms from direct observation. In particular, they explore the beauty of the human form through lessons on proportion, shading, gesture, the skeletal system, and capturing the expressive qualities of the model. They continue the development of a portfolio of original artwork that can be used for further study in art, as preparation for the Baccalaureate exam, or as a supplement to their college applications. This course is taught in English.

**Latin V (Elective)**

Students read original texts concerning the following three of four themes: Urban Life in Greco-Roman Civilization; Gods in Greco-Roman Civilization; Male, Female; and The Mediterranean Sea: Conflicts, Influences, Exchanges. Studies focus on Latin grammar, stylistics, vocabulary, etymology, literature, and civilization. Connections with other texts from the French and English curricula are made as often as possible. The course also includes notions of ancient Greek culture and language. This elective is taught in French.

**Music (Elective)**

This course focuses on musical practices. Group listening is emphasized, allowing students to deepen their understanding of music through a study of space, time, color, and form. They are exposed to a variety of musical works of different eras, genres, and styles. Teaching is enriched by music practices (both vocal and instrumental). This course is taught in French.

**Grade 12 French Baccalaureate Program**

**Economics and Sociology 12 - Honors**

This course is a continuation of the one taught in Grade 11. It enables students to progressively integrate the concepts, methods, and key questions of three fields of social science: economics; sociology; and political science. The economics unit is organized around different themes: the sources and challenges of economic growth, the foundations of international trade and the internationalization of production, the fight against unemployment, the financial crisis and regulation of the financial system and the economic policies in the European framework. The sociology and political science unit focuses on the structure of current French society, the action of education on individual destinies and on the evolution of society, the contemporary characteristics and factors of social mobility, the changes in work and employment and explanations of political engagement in democratic societies. The last topics mix economics, sociology and political science approaches: the first one is an analysis on the compatibility of inequalities with different conceptions of social justice. The second one relates to the public action for the environment.

**Philosophy 12-Honors**
Students are invited to think critically and analytically about human life through concepts such as consciousness, freedom, justice, society, happiness, art, religion, reason, etc. They develop the ability to critique, reflect in a highly logical and thorough manner, and take an inquiry stance with respect to major philosophical areas, such as political philosophy, epistemology, ethics, metaphysics, and aesthetics. In order for students to form their own well-founded opinions, they are asked to draw from the works of great Western philosophers and schools of thought developed from antiquity to the present day. Students are trained to write commentaries and dissertations in preparation for the Baccalaureate exam. Specifically, they learn to discern the essential issues contained within a philosophical question, clearly explore different points of view, extend beyond facts to the conceptualization of abstract ideas, and logically organize a personal reflection from introduction to conclusion. The course is taught via lectures, presentations, discussions, analyses of texts from the great philosophical works, and the reading of important authors recommended by the French Ministry of National Education. This course is taught in French.

**English 12 - Honors OIB**

This advanced, college-level reading and writing course is the second year of the two-year English OIB program. Building on the work done by students in grade 11, this course not only devotes a significant portion of study to an in-depth analysis of the various literary genres—fiction, poetry, drama, and nonfiction—it also prepares students for the Baccalaureate exam through periodic mock written and oral tests taken in exam conditions. In addition to essays written in exam conditions, students develop their writing skills through a variety of writing activities, including journals, short responses, and creative-writing pieces. A significant portion of the year is dedicated to extensive study of the works in depth—those texts that will be the focus of the Baccalaureate oral exam—with particular focus on students developing strategies and techniques for effectively close-reading the language, literary features, and meaning of significant passages from those works.

Texts and authors include, but are not limited to, *Crime and Punishment* by Fyodor Dostoevsky, *The Tempest* by William Shakespeare, *Beloved* by Toni Morrison, *Intimate Apparel* by Lynn Nottage, and a selection of poems by Robert Frost. This course is taught at a native level.

**English 12**

This non-OIB English course, in addition to preparing students for the Baccalaureate exam, is a college-preparatory discussion-based class for native or near-native English-speaking students who are interested in attending American, Canadian, or other English-language universities. Students engage in the close reading and analysis of literary works, including novels, plays, short stories, and poetry. In addition to literary study, students continue to develop their writing skills, perfect their grammar, and build their vocabulary. Students develop these skills through a variety of writing activities, including journals, short responses, creative-writing pieces, and analytical essays.

Texts and authors may include, but are not limited to, *1984* by George Orwell, *V for Vendetta* by Roger Moore, *The Underground Railroad* by Colson Whitehead, *The Road* by Cormac McCarthy, *City of Thieves* by David Benioff, *Pygmalion* by George Bernard Shaw, as well as short stories, poetry, and contemporary essays. This course is taught at a native level.

**English 12 LV1 for Non-Native Speakers**

This course involves intensive work in improving aural/oral skills, as well as reading and writing skills, in preparation for the English LV1
Baccalaureate examination, International English Language Testing System (IELTS), and the Test of English as a Foreign Language (TOEFL). Students review English grammar, work on vocabulary development, practice IELTS and TOEFL exercises, and read a selection of British and American novels, plays, and poetry. A variety of literary genres, including fiction (long, short, drama, poetry) and nonfiction (essays, journalistic works), is included. Texts and authors include *Vinegar Girl* by Anne Tyler, *Pygmalion* by George Bernard Shaw, *V for Vendetta* by Lloyd and Moore, *Warriors Don’t Cry* by Melba Pattillo Beals, contemporary essays, and poetry. This course is taught in English.

**European History and World Geography IV - Honors***

**History:** Relations between the powers and the opposition of political models, from the 1930s to the present day. This program aims to show how the world has been deeply reshaped in less than a century by the relations between the powers and the confrontation of political models. In the interwar period, the rise of totalitarian destabilized democracies; then the unleashing of violence of the Second World War leads to the conflictual equilibrium of a world which has become bipolar, even as the colonial empires break up. The Cold War brings two political models and two great powers face to face, which, while avoiding direct confrontation, provoke or maintain numerous regional armed conflicts. At the same time, Western societies are undergoing profound upheavals: the establishment of welfare states, entry into the consumer society ... In Western Europe, European construction consolidates peace and works for the reciprocal opening of economies European. The 1970s and 1980s saw the birth of multiple economic, social, cultural and geopolitical dynamics, which ultimately resulted in the collapse of a Soviet bloc and the end of the bipolar world. Since the 1990s, conflicts and cooperation have developed and intertwined on a global, European and national scale, posing in new fields the recurring question of tensions between particular interests and general interest.

**Geography:** Territories in globalization: between integrations and rivalries

Globalization is seen as an intensification of ties and a growing hierarchy of territories on a global scale. After having addressed the main spatial components and dynamics of the contemporary world in the Year 10 and Year 11, it is a question, in the Year 12, of studying the consequences, on the territories, of the process of globalization - between integrations and rivalries - and to analyze the play of the actors, framework where the weakening or the affirmation of the powers takes place. There is increased interest in the strategic spaces of the seas and oceans, as well as in the balance of power marked by competition and territorial cooperation which lead to the search for supranational governance. In this context, the study of the European Union (EU) invites us to question, on the one hand, the functioning, the strengths and the weaknesses of a highly integrated supranational organization and, on the other hand, its positioning on the world geopolitical chessboard. The study of France and its regions, within the framework of the European Union and in the context of globalization, aims to mobilize the knowledge, skills and methods acquired in high school, to analyze the challenges and the effects of policies planning.

**History, Geography, and Political Science II-Honors***

The specialty teaching of history-geography, geopolitics and political science gives students keys to understanding the past and contemporary world in terms of social, political, economic and cultural relations. By adopting convergent historical and geographic approaches to the situations, events and contexts which he subjects to study, he constitutes both an opening onto objects little
explored in the pupils' education and a deepening of the 'common history and geography teaching of first and final years.

The teaching also offers a political treatment, at the national and international levels, of major questions with a historical dimension. As such, it is articulated, in a flexible and coherent manner, with the specialty program of economic and social sciences. The examination of political questions, linked to their observation on a territory, the interest accorded to international relations, the study of the history and characteristics of supranational institutions such as the European Union or the UN, give to geopolitics a central place in this program.

Theme 1 - New spaces of conquest
Theme 2 - War, peace: forms of conflict and methods of resolution
Theme 3 - History and memories
Theme 4 - Identifying, protecting and enhancing heritage: geopolitical issues
Theme 5 - The environment, between exploitation and protection: a global issue
Theme 6 - The strategic challenges of knowledge

Modern World History and Geography II - Honors OIB

This is the second course in a demanding two-year history/geography program that covers the global events and themes that have shaped the modern world. The culminating examination is the History/Geography portion of the OIB (International Option) of the French Baccalaureate exam, which is comprised of both a four-hour written exam and a half-hour oral exam.

In 12th grade, the history portion of the course takes a thematic approach to understanding the modern world. In addition to a focus on international politics and challenges to prevailing political models, the course places a heavy emphasis on the causes and consequences of the major economic and social transformations of the 20th century.

In geography, students study the territorial dynamics, cooperation, and tensions inherent in our globalized economy. The curriculum includes in-depth studies of the importance of maritime spaces and how globalization impacts various territories on different scales (global cities, nation-states, regional partnerships such as the European Union). Students also develop expertise in the analysis of geo-political, geo-economic, geo-cultural, and geo-environmental maps.

Grade 12 Analysis, Calculus, and Probability II*

Topics covered in this course include:
- Sequences - Geometric sequences and series, arithmetic-geometric sequences, limits
- Calculus: Exponential, logarithmic, limits and continuity, Intermediate Value Theorem, differentiation, antiderivative, differential equation linear, convex function, inflection point, Riemann integral, areas calculation, asymptote of a curve.
- Probability and Statistics - Conditional probability, Bayes’ formula, independent events, Bernoulli experiment, binomial coefficients, density function of a continuous random variable, binomial distribution, geometric distribution, uniform distribution, exponential distribution. Two-variable statistics, least squares.
- Algorithms: Basic (variables, input, output, expressions, functions), conditional statements, iterative loops, pseudo-code, list, application in: programming with Python language, set mathematical notation and logical reasoning (connectors, negation, truth tables, propositions, logical implication), graphing calculator, geometry software. This course is taught in French.

Grade 12 Analysis, Advanced Calculus, Vector Geometry, & Probability II *

Topics covered in this course include:
- Combinatorics: power set, binomial coefficients, factorial
- Spatial Vector Geometry: Lines and planes equations, vectors, norm, Scalar Product.
Sequences: Proof by mathematical induction, limits, geometric sequences and series, bounded above or below sequences
Calculus: Exponential, logarithmic, trigonometric equations and formulas, law of sines, law of cosines, power and trigonometric functions, limits and continuity, Intermediate Value Theorem, convex function, inflection point, differentiation, antiderivative, Riemann integral, integration by part, areas calculation, asymptote of a curve, differential equation linear,
Probability and Statistics - Conditional probability, Bayes’ formula, independent events, Bernoulli experiment, binomial coefficients, binomial distribution, sum of random variable, law of large numbers, Chebyshev’s inequality
Probability and Statistics: Conditional probability, Law of Total Probability (Bayes’ formula), independent events, density function of a continuous random variable, uniform distribution, exponential distribution, standard normal distribution, Moivre-Laplace Theorem, normal distribution N, Estimation Theory (prediction interval, confidence interval)
Algorithms: Basic (variables, input, output, expressions, functions), conditional statements, iterative loops, pseudo-code, list, application in: programming with Python language, set mathematical notation and logical reasoning (connectors, negation, truth tables, propositions, logical implication), graphing calculator, geometry software. This course is taught in French.

German VI

In grade 11 and 12, students are tasked to perfect their practice of the German language in order to become more independent in speaking and in writing. The main goals include being able to understand an exchange on a variety of topics, partaking in a spontaneous conversation, and detecting the salient information of a written text. The course explores at least six out of the following eight different themes: identities and exchanges; public and private spaces; art and power; citizenship and virtual worlds; fiction and reality; scientific innovations and responsibilities; diversity and inclusion; land and memory. The examinations of the French Baccalaureate occur in both grade 11 and 12 (“contrôle continu”), and are facilitated by the teacher and the School. This course meets two hours a week.

Spanish III (Elective)

Students in grade 12 who started Spanish as a third language (LV3) in grade 10 continue down this path in accordance with the French program. They are given ample opportunities to review and solidify grammar and vocabulary basics. In addition, they are asked to deepen their mastery of the language through the study of various authentic documents: visual texts (literature, cartoons, advertisements) and audio-visual materials that expose them to the different accents of the Spanish-speaking world and the diverse cultures within it. Students are challenged to enrich their expression as they continue to communicate through comprehension, speaking, reading, and writing, while grappling with more mature, complex topics. The course material falls under the four major themes of the Baccalaureate exam: heroes and myths; spaces and exchanges; places and forms of power; and the idea of progress.
Students of LV3 may choose to prepare for the oral component of the Baccalaureate exam, although this is optional.

**Spanish VI**

In grade 11 and 12, students are tasked to perfect their practice of the Spanish language in order to become more independent in speaking and in writing. The main goals include being able to understand an exchange on a variety of topics, partaking in a spontaneous conversation, and detecting the salient information of a written text. The course explores at least six out of the following eight different themes: identities and exchanges; public and private spaces; art and power; citizenship and virtual worlds; fiction and reality; scientific innovations and responsibilities; diversity and inclusion; land and memory. The examinations of the French Baccalaureate occur in both grade 11 and 12 (“contrôle continu”), and are facilitated by the teacher and the School. This course meets two hours a week.

**Physical Education**

In accordance with the physical education curriculum of the Baccalaureate, students are graded in three sports within different athletic domains. These include, but are not limited to, lifeguarding, running (2 X 800 meters), basketball, soccer, fitness, dance, relay running, rock-climbing, volleyball, and badminton. This course is taught in French and English.

**Art III (Elective)**

This course prepares students for the Baccalaureate exam in visual art. Three specific works of art are studied in depth, and students are encouraged to forge connections among these three works and their own creative explorations. Throughout the year, they build a portfolio of works, including sketches, drawings, photographs, and finished projects in a variety of media. The resulting portfolio documents the student’s personal artistic process, growth, and understanding in the broader context of art history and culture. This course is taught in English; the oral exam is conducted in French.

**Latin VI (Elective)**

This course is the final one in the sequence of the Latin curriculum in the high school. Students engage in oral and written activities based on themes such as philosophical thinking, scientific reasoning, and political thought and the reading of authentic texts. Connections with other texts from the French and English curricula are made as often as possible. This course also includes notions of ancient Greek culture and language. The Latin section of the French Baccalaureate has a coefficient of 3. This elective course is taught in French.

**Music (Elective)**

This course focuses on musical practices. Group listening is emphasized, which allows students to deepen their understanding of music through a study of space, time, color, and form. Students are exposed to a variety of musical works of different eras, genres, and styles. Classroom teaching is enriched by music practices (both vocal and instrumental). This course is taught in French.

**Biology/Earth Sciences Specialty II-Honors***

This course builds on knowledge learned in prior science courses and combines lectures and lab exercises. The content focuses on the following themes:

- Earth in the Universe, Life, and the Evolution of Living Things - Genetic variation related to sexual reproduction and a few aspects of the mechanisms of evolution (study of angiosperm)
- A few aspects of continental geologic transformations are discussed to introduce the
theme of Contemporary Global Issues, in which two questions are addressed: man’s domestication of the plant and the thermal properties of the Earth as possible energy sources and as elements in the understanding of how the Earth operates.

Human Body and Health is structured around two questions: a few aspects of immune relations complete middle school knowledge and link this theme to an evolving vision.

Study of the somatic nervous system in association with the spinal reflex will reinforce the notion of “reflex,” while giving a solid background in neurons and synapses.

Physics and Chemistry II-Honors*

This course is a continuation of the 11th-grade curriculum. It promotes experimental practice and modeling, offering a concrete and contextualized approach to concepts and phenomena, and is structured around four themes: Constitution and Transformations of Matter; Movement and Interactions; Energy: Conversions and Transfers; and Waves and Signals.

The course is taught in French.

International Baccalaureate Diploma Programme (11IB and 12IB)

Group 1: English A Literature - Higher Level/Standard Level (Grades 11 and 12)

The course is built on the assumption that literature is concerned with our conceptions, interpretations and experiences of the world. The study of literature can therefore be seen as an exploration of the way it represents the complex pursuits, anxieties, joys and fears to which human beings are exposed in the daily business of living. It enables an exploration of one of the more enduring fields of human creativity, and provides opportunities for encouraging independent, original, critical and clear thinking. It also promotes respect for the imagination and a perceptive approach to the understanding and interpretation of literary works.

Through the study of a wide range of literature, the language A: literature course encourages students to appreciate the artistry of literature and to develop an ability to reflect critically on their reading. Works are studied in their literary and cultural contexts, through close study of individual texts and passages, and by considering a range of critical approaches. In view of the international nature of the IB and its commitment to intercultural understanding, the language A: literature course does not limit the study of works to the products of one culture or the cultures covered by any one language. The study of works in translation is especially important in introducing students, through literature, to other cultural perspectives. The response to the study of literature is through oral and written communication, thus enabling students to develop and refine their command of language. The course is divided into three sections.

1. Readers, writers and texts
This area of exploration introduces students to the nature of literature and its study. The investigation students will undertake involves close attention to the details of texts in a variety of literary forms to learn about the choices made by authors and the ways in which meaning is created. At the same time, study will focus on the role readers themselves play in generating meaning as students move from a personal response to an understanding and interpretation that is influenced by the community of readers of which they are a part. Their interaction with other readers will raise an awareness of the constructed and negotiated nature of meaning.

Likely Texts:
1. Henry IV, Part One by Shakespeare (1597?) - drama

2. Time and Space – Spring 2020
This area of exploration focuses on the idea that literary texts are neither created nor received in a vacuum. It explores the variety of cultural contexts in which literary texts are written and read across time and space as well as the ways literature itself—in its content—mirrors the world at large. Students will examine how cultural conditions can shape the production of a literary text, how a literary text can reflect or refract cultural conditions, and the ways culture and identity influence reception.

Likely Texts:
1. We by Yevgeny Zamyatin (1921) – novel (in translation)
3. The Rover by Aphra Behn (1677) - drama
4. *Sir Gawain & the Green Knight by Anonymous (late 1300s) – poem (in translation)
* equals HL only

3. Intertextuality: Connecting texts – Fall 2020
This area of exploration focuses on intertextual concerns or the connections between and among diverse literary texts, traditions, creators and ideas. It focuses on the comparative study of literary texts so that students may gain deeper appreciation of both unique characteristics of individual literary texts and complex systems of connection. Throughout the course, students will be able to see similarities and differences among literary texts. This area allows for a further exploration of literary concerns, examples, interpretations and readings by studying a grouping of works set by the teacher or set in close conversation with a class or groups of students.

Likely Texts: Theme of Women and Identity
2. The Handmaid’s Tale by Margaret Atwood (1985) - novel
* equals HL only

Group 1: French Language A and Literature - SL and HL (Grades 11 and 12)
In the language A: language and literature course students study a wide range of literary and non-literary texts in a variety of media. By examining communicative acts across literary form and textual type alongside appropriate secondary readings, students will investigate the nature of language itself and the ways in which it shapes and is influenced by identity and culture. Approaches to study in the course are meant to be wide ranging and can include literary theory, sociolinguistics, media studies and critical discourse analysis among others. The course is articulated around the following themes:
- Readers, writers and texts
- Time and space
- Intertextuality: connecting texts

The Assessment is as follows:
External Assessment: May Final Examinations
Paper 1: Guided textual analysis
Paper 2: Comparative essay
HL essay (High-level only)
Internal Assessment: Individual oral

This two year course is aimed at the preparation of the International Baccalaureate Diploma and can be taken at the Standard Level or at the Higher Level. Both levels are taught at a native level and will allow the students to obtain a Bilingual International Baccalaureate Diploma.

Group 2: Language Acquisition (Grades 11 and 12)
The Group 2 courses provide students with the opportunity to acquire or develop an additional
language and to promote an understanding of other cultures through the study of language.

The aims are to develop students’ intercultural understanding; enable them to understand and use the language they have studied in a range of contexts and for a variety of purposes; and encourage, through the study of texts and through social interaction, an awareness and appreciation of the different perspectives of people of other cultures.

Assessments aim to test students’ ability to understand and use the target language. Students will be assessed on their ability to communicate clearly and effectively in a range of situations, demonstrating linguistic competence and intercultural understanding; use language appropriate to a range of interpersonal and/or cultural contexts; and understand, analyze, and respond to a range of written and spoken texts.

There are three levels of language acquisition courses in the IBDP, Language B Higher Level, Language B Standard Level, and Language ab initio Standard Level. The placement is based on the student’s level of proficiency developed to be able to communicate effectively. The level of communication, knowledge and skills will determine the appropriate Group 2 course. FASNY offers these courses in German, French, and Spanish. These two-year courses are taught in the target language.

The Common European Framework of Reference (CEFR) defines levels of proficiency as follows: A1 - Beginner; A2 - Elementary; B1 - Intermediate; B2 - Upper Intermediate; C1 - Advanced; C2 - Mastery. At the end of ninth grade, students should attain the A2 (Elementary) level.

Group 2: Language B - HL (CEFR B2+/C1)

Designed for students who possess a degree of knowledge and experience in the target language, this course meets for a total of 240 hours during the school year.

The course is articulated along the five following prescribed topics: Identities, Experiences, Human ingenuity, Social organization, and Sharing the planet.

Students must also study two literary works used as stimulus for the exploration of ideas.

Examples of work studied are:
French B - HL A variety of texts including novels, short stories, and poems by Eric-Emmanuel Schmitt, Guy de Maupassant, Roch Carrier, Jacques Prévert.
Spanish B - HL Literary works by Quiroga, Matute, Borges, Cortazar, Buero Vallejo, Denevi.

Group 2: Language B - SL (CEFR B2)

Designed for students who possess a degree of knowledge and experience in the target language, this course meets for a total of 150 hours during the school year.

The course is articulated along the five following prescribed topics: Identities, Experiences, Human ingenuity, Social organization, and Sharing the planet.

Group 3: Economics - SL and HL (Grades 11 and 12)

Economics SL is divided into four sections: microeconomics, which covers competitive markets, elasticity, government intervention, and market failure; macroeconomics, which looks at the level of overall economic activity, aggregate demand and aggregate supply, macroeconomic objectives, and fiscal, monetary, and supply-side policies; international economics, which involves learning about international trade, exchange rates, the balance of payments, and economic integration; and development economics, which looks at
economic development and how it is measured, the role of domestic factors, international trade, foreign direct investment (FDI), foreign aid and multilateral development assistance, international debt, and the balance between markets and intervention.

Group 3: History - SL and HL (Grades 11 and 12)

The IB History course is a demanding, writing-intensive, two-year program that covers the global events and themes that have shaped the modern world. The course traces modern world history through the lens of society, politics, and economics.

All students (Standard Level and Higher Level) will study two world history topics. The two World history topics will be selected by the teacher. Possible topics include, but are not limited to, the following:

Origins, Development and Impact of Industrialization (1750-2005)
Emergence and Development of Independent States (1848-2000)
Authoritarian States (20th Century)
Causes and Effects of 20th Century Wars
The Cold War: Superpower Tensions and Rivalries (20th Century)

In addition, all students (Standard Level and Higher Level) will explore the theme of Rights and Protest through an in depth look at two case studies (Civil Rights in the United States and Apartheid in South Africa). Students will be required to carefully evaluate the origin, purpose, and content of a variety of sources while also developing their critical and analytical thinking skills.

Students who choose Higher Level History will also engage in a more in-depth study of the Americas, studying the society, politics, and economics of the region through selected themes.

All students will develop their ability to analyze and interpret both primary and secondary sources. In the second year of the program, students will be required to complete a Historical Investigation, an IB-specific research paper in which they not only conduct research but also critically evaluate their sources and reflect on the challenges facing historians.

Group 4: Biology - SL and HL (Grades 11 and 12)

IB Biology is a two-year course that follows the International Baccalaureate syllabus. The emphasis of this course is on a practical approach in which students design investigations, collect data, develop manipulative skills, analyze results, and evaluate and communicate their conclusions. Students develop the skills to work independently and collaboratively as they parallel the way in which scientists work in the broader community.

Topics covered in the first year include cell biology, molecular biology, metabolism (photosynthesis and respiration), genetics, evolution and biodiversity.

Topics in the second year include human physiology, plant biology, and ecology.

The objectives of the course are to develop experimental and investigative skills, create awareness of the ethical implications of using science and technology, and develop an appreciation of the potentials and limitations of science and technology in understanding the workings of nature.

Difference Between SL and HL

SL and HL students undertake a common core syllabus, a common internal assessment (IA) scheme, and a common Group 4 project and have overlapping elements in the option studied.

Whereas the skills and activities are common to students at both the SL and HL, HL students are required to study some topics in greater depth, in the additional HL material and in the common option. The difference between SL and HL is mainly one of breadth and depth.
**Group 4: Chemistry - SL (Grades 11 and 12)**

This two-year course taught in English follows the specifications of the curriculum of the International Baccalaureate. The whole class meets for a total of five periods a week with SL students being dismissed from time to time while HL only requirements are covered. Students will learn about measurement and data-processing throughout both years, especially during experimental work.

Topics covered in the first year (grade 11) are stoichiometric relationships, atomic structure, periodicity, chemical bonding, energetics, and kinetics.

Topics covered in the second year (grade 12) include equilibrium, acids and bases, redox processes, and organic chemistry. Students then work on one of the four following options: materials; biochemistry; energy; or medicinal chemistry.

In addition to the previously mentioned topics, towards the end of the first year students will work on a multidisciplinary project (Group 4 project) in collaboration with students from all the sciences.

Independently, at the beginning of the second year, every student will select an individual investigation on a theme of their choice to explore, analyze, and evaluate and then communicate their findings as part of their Internal Assessment (IA), which will be part of their IB final grade.

**Difference Between SL and HL**

SL and HL students undertake a common core syllabus, a common internal assessment (IA) scheme, and a common Group 4 project and have overlapping elements in the option studied.

Whereas the skills and activities are common to students at both the SL and HL, HL students are required to study some topics in greater depth, in the additional HL material and in the common option. The difference between SL and HL is mainly one of breadth and depth.

**Group 4: Physics - SL and HL (Grades 11 and 12)**

Topics covered in the first year include measurement and uncertainty, mechanics, waves, thermal physics, and electricity and magnetism. There will be a self-study unit on energy over the winter break. Topics for year two will include circular motion; gravity; atomic, nuclear, and particle physics; energy production; and astrophysics.

The objectives of the course are to build and learn to apply a body of knowledge about physics and the methods and techniques of scientific thinking; develop experimental and investigative scientific skills; and encourage an appreciation for the history and limitations of humanity’s remarkable progress in applying the scientific method to understand the workings of nature.

**Difference Between SL and HL**

The HL Physics course is designed to give students good preparation for the demands of university calculus-based courses in physics. Students with a strong interest in fields such as engineering, physics, mathematics, or architecture should consider HL. Students who do not expect to pursue any further study of science at the university level should consider SL.

SL and HL students study the same set of “core” topics, but HL students study some of the topics in greater depth. Both levels will undertake an Internal Assessment, in which the student independently investigates a topic of interest to him or her. The course is taught in English.

**Group 5: Mathematics**
Students have different needs, aspirations, interests, and abilities. For this reason, there are two different subjects in mathematics, each available at SL and HL. These courses are designed for different types of students: those who wish to study mathematics as a subject in its own right or to pursue their interests in areas related to mathematics, and those who wish to gain understanding and competence in how mathematics relates to the real world and to other subjects. Each course is designed to meet the needs of a particular group of students.

Group 5: Mathematical Application and Interpretation - SL (150 hours)

This course is intended for students interested in the application of mathematics to solve everyday problems and offers good preparation for the study of social sciences, humanities, certain economics courses, statistics courses, and the arts.

- Number and Algebra - 16 hours
- Functions - 31 hours
- Trigonometry and Geometry - 18 hours
- Statistics and Probability - 36 hours
- Calculus - 19 hours
- Mathematical Exploration - 30 hours

Mathematical Analysis and Approaches - SL and HL

This course is for students who want to pursue a university course with a substantial mathematical element, such as engineering, physics, or technology. Students will become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They also will explore real and abstract applications of these ideas. Students who take this course are those who enjoy the thrill of mathematical problem-solving and generalization.

Group 5: Mathematical Analysis and Approaches - SL (150 hours)

- Number and Algebra - 19 hours
- Functions - 21 hours
- Trigonometry and Geometry - 25 hours
- Statistics and Probability - 27 hours
- Calculus - 28 hours
- Mathematical Exploration - 30 hours

Group 5: Mathematical Analysis and Approaches - HL (240 hours)

- Number and Algebra - 39 hours
- Functions - 32 hours
- Trigonometry and Geometry - 51 hours
- Statistics and Probability - 33 hours
- Calculus - 55 hours
- Mathematical Exploration - 30 hours

Grade 11 and 12 IB Visual Art SL and HL

The 2-year IBDP visual arts course celebrates the dynamic and ever-changing nature of the visual arts through the making of images and objects, as well as in the appreciation, enjoyment, respect for and response to practices of art-making by people from around the world. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers.

The IBDP Visual Arts course in Higher and Standard Level focuses on three core elements of contemporary art theory and practice:

- Visual arts in context
- Communicating visual arts
- Visual arts methods

All three core syllabus areas will be explored through three practices: Theoretical practice, art-making practice and curatorial practice. The course content is also divided into three components:

- Students will research across cultures
and historic eras to produce an academically sound **comparative study** in the format of a digital slideshow.

- Students will produce a **discrete body of artworks**, exploring a range of mediums and methods.
- Students will curate a culminating **exhibition of their own work**.

Throughout the two year programme students will consolidate their research investigations, creative ideas and curatorial plans in a **visual arts journal** which functions as the central, connecting and pivoting platform of the course.

**Core: Theory of Knowledge (Grades 11 and 12)**

Theory of Knowledge (TOK) is a course that fully explores what it means to think critically. Students focus on inquiring into the process of knowing, rather than on acquiring a specific body of knowledge. They learn to examine how knowledge is built and evaluated by individuals and societies, recognize the validity of different perspectives, and learn to test and challenge their own assumptions. As part of the IB Diploma Program core, TOK makes use of the knowledge gained in other subject courses, as well as knowledge gained outside the classroom from the media or through CAS (Creativity, Activity, Service), for example, to pursue its exploration. While TOK is not a traditional content-focused course, to say that TOK is a course without content would be misleading. In order to succeed, students must become fluent in the specific analytical terminology of TOK and know and be able to analyze the various Ways of Knowing (WOKs), as well as the various Areas of Knowledge (AOKs). Each Area of Knowledge has a specific Knowledge Framework, which students will learn as well.

The central features of the TOK course are critical analysis questions, or Knowledge Questions. In order to effectively create and “unpack” Knowledge Questions, students need to be able to analyze knowledge claims and distinguish between shared knowledge (the sort gained from studying a given content area, for example) and personal knowledge (the sort that is difficult to communicate to others, such as experiential knowledge or certain abilities).

There are two assessment tasks in the TOK course: the essay and the presentation. At the end of the first year, students prepare an oral presentation, to be assessed internally, based on a real-world situation in which they explore a fundamental Knowledge Question that they have extracted from the situation. At the end of the second year, students write a TOK essay based on one of six prescribed titles published earlier in the year by the IBO. This essay is externally assessed and counts for two-thirds of the student’s overall TOK exam score.

**Core: Creativity, Activity, Service (CAS)**

CAS involves students in a range of activities alongside their academic studies. It enables them to enhance their personal and interpersonal development by learning through experience and provides opportunities for self-determination and collaboration with others, fostering a sense of accomplishment and enjoyment from the work. Students reflect on their CAS experiences as part of the IB Diploma Program and provide evidence of achieving eight learning outcomes for CAS.

The three strands of CAS, which are often interwoven with particular activities, are characterized as follows:

- **Creativity** - Arts and other experiences that involve creative thinking
- **Activity** - Physical exertion contributing to a healthy lifestyle, complementing academic work elsewhere in the IB Diploma Program
Service - An unpaid and voluntary exchange that has a learning benefit for the student. The rights, dignity, and autonomy of all those involved are respected.

In order to demonstrate these concepts, students are required to undertake a CAS Project. The project challenges students to show initiative, demonstrate perseverance, and develop skills such as collaboration, problem-solving, and decision-making.

CAS is also an important counterbalance to the academic pressures of the IB Diploma Program. This course is taught in English.

Core: Extended Essay (EE)

The Extended Essay is an in-depth study of a focused topic chosen from the list of approved IB Diploma Program subjects—normally one of the student’s six chosen subjects for the IB Diploma. It is intended to promote high-level research and writing skills, intellectual discovery, and creativity. It provides students with an opportunity to engage in personal research on a topic of their choice, under the guidance of a supervisor. This in-depth study leads to a major piece of formally presented, structured writing in which ideas and findings are communicated in a reasoned and coherent manner appropriate to the subject chosen.

The Extended Essay is compulsory for all IB Diploma Program students. It is the result of approximately 40 hours of work by the student and presented as a formal piece of scholarship containing no more than 4,000 words. In the course of working on the Extended Essay, students are provided the opportunity to develop research, communication, creative, and critical-thinking skills; engage a systematic process of research appropriate to the chosen subject; and experience the excitement of intellectual discovery. Although students are provided with some guidance from their supervisors at various stages of the process, the Extended Essay is largely meant to provide them with the opportunity to engage in independent research and writing.

The Extended Essay is externally assessed against common criteria, which is interpreted in ways appropriate to each subject. In combination with the grade for Theory of Knowledge, the Extended Essay contributes up to three points to the total score for the IB Diploma. This course is taught in English.