MONTCLAIR KIMBERLEY ACADEMY



TABLE OF CONTENTS

Mission Statement4			
Character Standards			
Social and Emotional Learning Competencies6			
Multicultural Education Statement of Purpose 8			
The MKA Learner9			
The Middle School10			
Advisor Program10			
Social and Emotional Learning10			
Diversity, Equity, Inclusion, & Antiracism10			
Ethical Leadership11			
Community Engagement11			
Library11			
Technology Integration12			
FLEX Offerings12			
Class Trips12			
Global Experience12			
Homework13			
Progress Reporting13			
Academic Assistance13			
Academic Probation13			
Course Recommendation Process14			
Extended Absence Policy14			
Language Arts / English15			
Social Studies / History19			
Mathematics22			
Science25			

World Language28		
Fine and Performing Arts		
Lower House Yearlong Courses31		
Lower House Quarterly Courses31		
Upper House Trimester Courses32		
Upper House Yearlong Courses34		
Health, Wellness, and Physical Education36		
Middle School Faculty38		

MONTCLAIR KIMBERLEY ACADEMY MISSION STATEMENT

MKA's challenging, engaging, and innovative academic program provides a vibrant and transformative education. Our faculty's deep and genuine understanding of our students as individuals and as learners fosters their ethical development, intellectual growth, and personal success. MKA's diverse, collaborative, and inclusive community inspires students to lead lives of noble character, purpose, and distinction.

Evidence of our mission is found in the Knowledge, Vision, and Integrity of our students and our alumni:

KNOWLEDGE:

Academic excellence Intellectual independence Love of learning

VISION:

Personal engagement with the world Understanding of human complexity A sense of humility and compassion

INTEGRITY:

Strength of character Responsibility as a citizen and leader An honorable and generous life



ALL MEMBERS OF THE MKA COMMUNITY STRIVE TO ACT, SPEAK, AND THINK IN WAYS THAT ARE:

RESPECTFUL

We act with civility in our relations with others while still valuing ourselves. We are conscious of the world around us, and we recognize the worth of all we have and treat it accordingly.

FRIENDLY

We demonstrate good will and compassion in our relationships with others. We understand that in order to have friends we must be friends and treat all with understanding, loyalty, and respect.

RESPONSIBLE

We fulfill obligations and complete tasks to the fullest of our ability, and we are accountable members of our community. We volunteer our assistance when called upon and budget our time, efforts, and resources sensibly.

CONFIDENT

We uphold a positive image of ourselves regardless of the way others perceive us. We recognize our potential and challenge ourselves to improve the talents and skills we possess. We are able to take pride in our work, while remaining humble and accepting criticism. We express our opinions freely without fear of the judgment of others and always speak up when we see acts of injustice.

TEMPERATE

We balance all aspects of our lives. By devoting personal attention to academics and personal commitments, we maintain moderation. While welcoming relaxation, we exert self-control and strength of will when faced with temptation and challenge.

FAIR

We cultivate an environment where all students may act and speak without the fear of prejudice, intolerance, or judgment. We recognize and seek to understand the differences between individuals in the community. While recognizing these differences, we also value the inherent equality among all.

INFORMED

We rely not only on our own experiences to make decisions, but we also actively seek a more thorough understanding of the world. With our knowledge, we envision a more peaceful and empathetic society.

HONEST

We understand the value and necessity of being true to ourselves, as well as others, and we are sincere in words and actions. We take pride in the authenticity of our own work and ideas, and we have the courage and integrity to take responsibility for all of our actions.



Social and Emotional Learning (SEL) Competencies for the MKA Community

Self-Awareness



I KNOW how I feel and can communicate it clearly.

I know my strengths and challenges.

I know when to seek help and how to find it.

I know there are many parts of myself that make me who I am.

I identify and understand how my emotions, values, strengths, challenges, and personal and social identities*— and their interconnections—develop an accurate self perception.

I examine my own prejudices and biases.

I embrace a growth mindset.

I develop my sense of purpose.

Self-Management



I MANAGE my emotions, stress, and actions.

I make good choices and act with integrity.

I set and achieve goals.

I organize and motivate myself.

I control impulses that cause harm, and I exercise self-discipline.

I work with my community to set and achieve collective goals.

Social Awareness



I RESPECT other people's feelings and perspectives.

I empathize with other people and demonstrate compassion.

I strive to be a positive influence in my school and community.

I read social cues in a variety of contexts.

I acknowledge, value, and honor everyone's perspectives, cultures, and humanity.

I understand the influences of organizations and systems on an individual's experience.

I stand up against actions and structures that cause harm.

Relationship Skills



I BUILD positive and healthy relationships.

I listen actively, communicate clearly, and collaborate effectively.

I respect and strive to understand the uniqueness of all individuals.

I help to resolve conflicts that cause harm.

I provide positive leadership in groups.

I interact with individuals in ways that demonstrate understanding of and honor their multiple identities*.

I negotiate disagreements constructively.

I seek and offer help (when needed).

I resist negative peer pressure.

Responsible Decision-Making



I MAKE safe, responsible, respectful, and constructive choices.

I work to understand and solve personal and community problems with an open mind.

I stand up for the rights of others.

I analyze situations and information.

I take personal, social, and ethical responsibility.

I reflect on my role in promoting personal and collective well-being and evaluate the impact of my actions.



*The National Association of Independent Schools (NAIS) identifies <u>17 sample cultural identifiers</u>, including race, ethnicity, gender, sexual orientation, socioeconomic status, religion, and ability.

Artwork by Katie Chung '24



Social and Emotional Learning (SEL) Competencies for the MKA Community

Social and Emotional Learning at MKA helps students to build an essential foundation for academic and personal success by developing the self-awareness, empathy, and good character needed to make responsible decisions and create positive relationships with others. All members of the MKA community commit to developing the skills identified here and modeling them for others.

Self-Awareness



The ability to identify and understand your emotions, thoughts, and multiple identities* (e.g., race, ethnicity, gender, sexual orientation, socioeconomic status, religion, ability) and how they influence behavior in different situations—and how different situations influence your behavior. The ability to understand your values, strengths, challenges, and areas for growth with a well-grounded sense of confidence and purpose.

Self-Management



The ability to regulate your emotions, thoughts, and behaviors effectively in different situations. This includes developing the capacities to manage stress, create balance, delay gratification, and feel motivation and agency to accomplish personal/collective goals.

Social Awareness



The ability to understand multiple perspectives and to act with empathy and compassion for one another. This includes understanding how your words and actions—and historical and current social structures—impact you and others.

Relationship Skills



The abilities to establish and maintain healthy and supportive friendships and other relationships and to effectively navigate situations with diverse individuals and groups. This includes the capacities to communicate clearly, listen actively, work collaboratively, negotiate conflict constructively, navigate settings with differing social and cultural demands and opportunities, provide leadership, and seek and/or offer help when needed.

Responsible Decision-Making



The abilities to make caring, respectful, and constructive choices about personal behavior and social interactions in different situations and to recognize family, school, and community resources and supports. This includes the capacities to consider ethical standards (such as honesty and fairness), cultural norms, and safety, and to evaluate the benefits and consequences of various actions for personal, social, and collective well-being.

*The National Association of Independent Schools (NAIS) identifies 17 sample cultural identifiers.

MKA acknowledges the following as inspiration for its development of this SEL Competencies document:

- Collaborative for Academic, Social, and Emotional Learning (CASEL). We used their five SEL core
 competencies and adapted their definitions and skills.
- Anchorage, AK School District's K-12 Social and Emotional Learning Standards and Indicators
 (as viewed in 2017)
- Ilinois State Board of Education's Illinois Learning Standards: Social/Emotional Learning (as viewed in 2017)
- Responsive Classroom

MKA also thanks Lauren Hyman Kaplan, M.A. for her insights and guidance. | Artwork by Katie Chung '24.

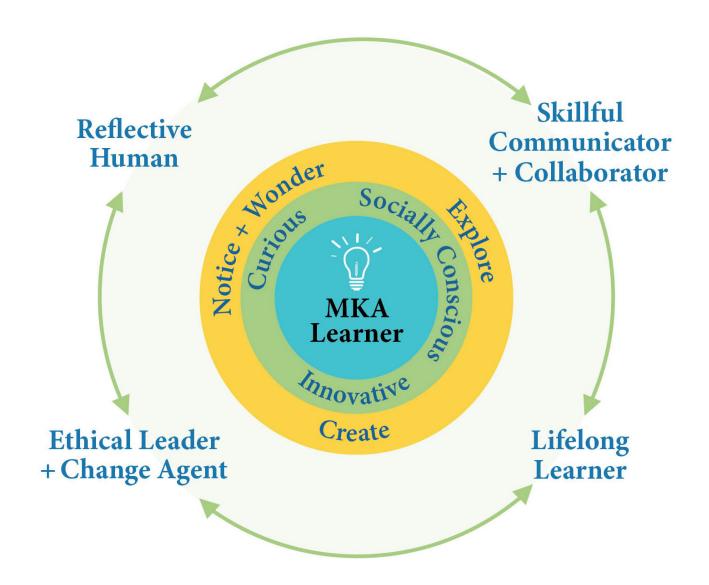


MULTICULTURAL EDUCATION STATEMENT OF PURPOSE

Multicultural education at MKA is a process of inquiry, reflection, and engagement that transforms students and faculty, school culture and curriculum, community and society. It is grounded in ideas of equity, anti-bias education, and social justice.

To create a truly multicultural curriculum that helps students reach their full potential as learners, MKA faculty will:

- Honor their students' narratives;
- Provide multiple perspectives within their disciplines;
- Provide all students opportunities to understand themselves, other members of the MKA community, and the global society
- Ensure that MKA is a safe environment in which to explore and discuss multiple perspectives, ask challenging questions, and create positive social change.



Inspired by the Conceptual Model of the "Educator as a Caring Intellectual" from the University of Wisconsin Oshkosh, College of Education and Human Services

THE MIDDLE SCHOOL

Middle School students in both the Lower House and the Upper House engage in varied learning experiences that help students to develop curiosity, the ability to problem-solve, and a love of learning. Faculty intentionally craft curricula to promote students' growth and to ensure that all students learn to be skillful communicators and collaborators who are reflective about both their learning and their ability to affect change in their communities. Guided by the community norms established by MKA's Mission Statement, MKA's Character Standards, and the Social and Emotional Learning (SEL) Competencies for the MKA Community, students practice both academic and social and emotional skills as they develop their voices and become increasingly independent learners.

Fourth- and fifth-grade students comprise the Lower House of the Middle School. The fourth-grade class structure follows the Primary School model where students learn reading, writing, social studies, and math with their advisor and travel to their other classes primarily with their homeroom group. Fifth grade begins the transition to the departmentalized structure of the Upper House where students switch classes based on disciplines, but they travel to see the subject-area specialists with their homeroom group. Lower House students' activity is centered in one, "home" hallway, dedicated to fourth- and fifth-grade students, where the majority of their classes meet.

Students in the sixth, seventh, and eighth grades comprise the Upper House of the Middle School. They are assigned an advisor group and travel throughout the school on individualized schedules. English, social studies/history, math, science, and world language classes meet eight times per ten-day cycle. Fine and performing arts, and health, wellness, and physical education classes meet six times per ten-day cycle.

ADVISOR PROGRAM

The advisor program focuses on the development of the social and emotional learning (SEL) of our students. It allows students to build an essential foundation for academic and personal success by developing the self-awareness, empathy, and good character needed to make responsible decisions and create positive relationships with others. Advisor groups meet at the beginning of each day and offer a check-in at the end of the day as well. They also meet once a week for advisor lessons and activities that address SEL goals anchored by the MKA Social and Emotional Learning Competencies. See the Competencies on pages 6 and 7.

The advisor is the primary contact between the school and a student's family. Whenever possible, students' homeroom advisors teach their advisees in at least one subject and get to know them in small, advisor-group settings. Advisors attend to their advisees' academic, social, and behavioral development; advocate for their advisees; and provide a comfortable forum in which to discuss a multitude of topics in age-appropriate ways.

SOCIAL AND EMOTIONAL LEARNING

Social and emotional learning (SEL) and academic growth are integrally connected. Research shows that students who attend schools with strong SEL programs have higher academic achievement, better mental health, and fewer behavioral difficulties in school—benefits that continue into adulthood. Every day, teachers support students' development of five SEL competencies: self-awareness, self-management, social awareness, relationship skills, and responsible decision-making. See pages 6 and 7 for more information.

DIVERSITY, EQUITY, INCLUSION, AND ANTIRACISM

Middle School students continue the Diversity, Equity, Inclusion, and Antiracism (DEIA) work that they began at the Primary School to examine their own identities and share what makes them unique and special within our community, so all students feel seen, heard, understood, safe, and honored for who they are. As students grow and demonstrate developmental readiness, they explore and appreciate differences and similarities, challenge stereotypes, and acknowledge the range of perspectives within and outside our community. In keeping with MKA's Mission Statement, to recognize complexity and value empathy, students and adults welcome, embrace, support, and encourage the entire community: its races, cultures,

and genders; its experiences and economics; and its aspirations, abilities, and affiliations. In forming and affirming positive classroom communities, students celebrate and value their individual differences.

Our responsive multicultural curriculum is taught in conjunction with social and emotional learning skills, which instill respect for the individual as well as all members of our community. Students are encouraged to speak confidently and genuinely, inspiring everyone to examine life and history from a variety of perspectives. See page 8 for the MKA Multicultural Education Statement of Purpose.

ETHICAL LEADERSHIP

We believe that all students are on a personal leadership journey to serve as leaders and create positive change in our world. Ethics and character development are integrated into all areas of school life—from the classroom to the playing field. "Knowledge, Vision, Integrity," the motto on our school seal, and Character Standards (see page 5) serve as the foundation for both explicit and implicit education in character and leadership. More specifically, our goal is to provide all of our students with the opportunity to examine their own identity and character development as they learn that Ethical Leadership is rooted in integrity, empathy, and service.

COMMUNITY ENGAGEMENT

Community engagement is an important part of the lives and learning of all Middle School students. Through the advisory program and in classrooms, students develop their social consciousness and Ethical Leadership skills as they develop an awareness of the world and the roles they can play in fostering positive change within their communities.

Middle School students have opportunities for community engagement at three levels. The whole campus may participate in collections and events such as the Thanksgiving Food Drive for the Human Needs Food Pantry in Montclair; the annual Student-Faculty Basketball Game, which raises funds for local and global charities of the student body's choosing; and an American Red Cross letter-writing campaign for active service members and veterans. Students additionally participate in a common, community-engagement endeavor at each grade level. These projects change each year but have in the past included school-wide recycling efforts in the fourth grade and the eighth grade orchestrating the Fleming 5k, an MKA-sponsored charity run/walk honoring long-time faculty member and running coach, Tom Fleming. Students may also initiate community-engagement projects individually or in small groups. Other students from various grade levels may choose to join during FLEX period, such as Green Group, or to contribute to a school-wide collection effort, such as Project Beautiful, which collects personal health and beauty items to support women and girls in shelters.

LIBRARY

In the Middle School Library, students have space and resources to collaborate and thrive in a rapidly changing world. The library program supports students' reading and information literacy development through library class in fourth and fifth grades and integrated, interdisciplinary research projects in fourth through eighth grades.

Students explore a wide variety of literature through independent choice, read-alouds, readers' theatre, and book talks, which play a unique and complementary role in students' literacy development. These experiences support the classroom reading curriculum and help students develop their reading identities. Students can explore a robust library collection that supports their interests by providing a global glimpse of people and cultures and access to different text formats. The combined use of Destiny (mka.follettdestiny.com), the online collection management system, and LibGuides, a digital library platform (https://libguides.mka.org/ms), expands online access to the library's collections.

Librarians collaborate with classroom teachers to instill in students a passion for reading and to provide an integrated and interdisciplinary information literacy curriculum. Guided by the MKA Research Cycle, a framework for honing information-literacy skills, students develop a toolkit of skills to aid strategic research through wondering; questioning; searching and observing; analyzing and recording; organizing and synthesizing; and sharing.

TECHNOLOGY INTEGRATION

MKA's commitment to preparing students for academic excellence and the development of good character includes its 1:1 Laptop Learning Initiative that provides each student with a laptop. Laptops are equipped with an identical suite of software to ensure a common platform for instruction and are replaced on a three-year cycle. Teachers use a learning management system to gather and organize their course resources for student access and provide continuity from one class meeting to the next.

At each grade level, teachers integrate technology as a learning tool to empower students to actively make meaning from their learning, construct knowledge, and creatively express themselves using various platforms appropriate to their goals. For example, they focus on problem solving as they learn how to best use their devices, apply those skills to research, and complete assignments. They also work collaboratively with multimedia applications for creating movies and podcasts. Students gradually acquire a repertoire of tools to help them make effective choices, accomplish tasks, and achieve their learning goals. In all academic disciplines, students use technology to learn in a variety of contexts, from using webs for brainstorming and organizing ideas, to collaborating with classmates and teachers on forums and blogs. Students refine their skills using computer applications as productivity and learning tools to write, edit, and revise their written work; to graph data; and to present information in creative, dynamic ways that demonstrate understanding of important ideas.

Students' experiences equip them with the technological fluency and the digital citizenship necessary to learn and lead in the 21st century. Throughout the year, fourth-grade students receive direct instruction to learn the fundamentals of responsible computer use, digital citizenship, communication, literacy, and security in order to become responsible and productive users of digital technology.

FLEX OFFERINGS

The purpose of FLEX period is to allow students the opportunity to explore areas of interest and to exercise some independence to shape their individual learning. FLEX takes place up to four times a cycle, depending on the grade level; and FLEX classes last for one semester. Some examples of faculty-led FLEX offerings include Geography, Pick-Up Basketball, Open Art, Chess, Current Events, and Book Club. Students in sixth through eighth grade may participate in yearlong Fine and Performing Arts FLEXES, such as Jazz Band and Chamber Singers. Yearlong Affinity Groups are also scheduled during FLEX periods. Students may also use this period to seek academic enrichment and/or support by attending sessions such as math, writing, world language, science lab, or a study hall to complete assignments independently.

CLASS TRIPS

During the first months of school, each grade level takes a class trip that encourages collaboration, team-building, and students' learning about one another and themselves. Students in fourth and fifth grade have the opportunity to build and strengthen relationships during a day trip to Camp Mason. Activities are designed to encourage bonding and trust among each advisor group. Students in sixth and seventh grade travel to Fairview Lake YMCA Camp. The sixth grade travels for the day, and the seventh grade spends one night. Students in eighth grade extend their studies of Colonial America with a four-day, research-based trip that immerses them in the colonial life of Williamsburg, VA.

GLOBAL EXPERIENCE

MKA's Global Experience offers Middle School students invaluable and enriching experiences that enhance their studies. Seventh- and eighth-grade students of French and eighth-grade students of Spanish may participate in world language immersion trips linked to their study of French or Spanish. Students go on educational excursions to important historical and cultural sites and participate in learning experiences. An additional trip to Costa Rica focuses on collaborative leadership, biodiversity, and sustainability and is offered to all interested students in eighth grade.

HOMEWORK

Homework contributes to effective learning by providing opportunities to prepare for class, practice and extend skills, and apply ideas creatively. Completing homework assignments also helps students learn responsibility and time management.

Students in fourth grade have homework four times a week and only occasionally on weekends. Students in fifth grade are assigned daily homework and the equivalent of a daily homework assignment over the weekend. Teachers coordinate assignments so that students should be able to complete work for all subjects in 45 to 90 minutes.

In the Upper House, students generally have homework every night. While it is difficult to provide an accurate measure of the time it will take each child to complete homework on any given night, the following is a guide for the time students should spend on homework each night:

- Students in sixth grade should expect to spend one and a half to two hours;
- Students in seventh and eighth grade usually spend two to two and a half hours.

These estimates should be taken into consideration when planning a child's extra-curricular activity schedule. Students can complete some homework during study halls and Collaborative Work Periods (CWPs) when they have access to their teachers. Veracross, an interactive, web-based course management system, allows students to organize their workload by checking posted assignments, accessing class materials and notes, and interacting digitally in support of their learning.

PROGRESS REPORTING

Communication between the parent(s) or caregivers(s) and teachers takes place throughout the year. Advisors contact home on a regular basis to share successes and discuss any concerns about the student's life at school. To review the student's social and emotional and academic progress, the parent(s) or caregivers(s) annually participate in two, scheduled conferences with the advisor(s)—one in the fall and one in late spring.

In all grades, parent(s) or caregivers(s) receive reports on progress that include feedback elaborating on the student's learning experiences, strengths, and challenges.

In the Upper House, student report cards with letter grades are available to families in Veracross at the end of each trimester. From each teacher, students receive narrative comments that provide a deeper understanding of their performance and the next steps to take with their learning. At other points in the year, teachers may write narrative comments for students whose grade average has gone up or down a full letter grade or whose average is D+ or below. These additional academic reports are designed to provide both students and parent(s) or caregivers(s) with prescriptive suggestions for improving learning.

ACADEMIC ASSISTANCE

Students experiencing academic difficulty are encouraged to ask for extra help from their teachers. Students may meet with teachers during collaborative work periods (CWPs), recesses, or after school. Parents/caregivers or students should contact the student's advisor if additional support is needed.

ACADEMIC PROBATION

At the end of each trimester, the Assistant Head of Campus reviews Upper House report cards. Students with two or more grades below C- are placed on academic probation.

When a student is placed on academic probation, the Assistant Head of Campus sends a letter notifying the student's parent(s) or caregiver(s) and advisor of the student's probationary status. While on academic probation, the student must attend an after-school study hall for one hour twice a week with the grade-level learning specialist. On these days, students on sports teams miss practices and away games without penalty. They are allowed to participate in home games.

If a student is on academic probation for two trimesters during one year, the Head of Campus addresses the situation with the student and their parent(s) or caregivers(s). A student on academic probation at the end of the school year, starts the following school year on academic probation.

The academic probation policy is different for students in sixth grade at the end of the first trimester. Rather than being placed on academic probation, the student and their advisor have a meeting with the Assistant Head of Campus. The advisor communicates the results of the meeting and the seriousness of the situation to the parent(s) or caregivers(s). In subsequent trimesters, students in sixth grade on academic probation attend the after-school study hall.

COURSE RECOMMENDATION PROCESS—EIGHTH TO NINTH GRADE ONLY

Department recommendations for the following year are made in the spring and are based on factors that include, but are not limited to: classroom performance; the ability to work independently; and preparation for and participation in class as well as a minimum grade requirement. A recommendation means that a student may take that course, not that they must take it. Upper School honors courses are accelerated courses for qualified students who have shown exceptional ability and who work well independently. This designation indicates one or more of the following about a course as compared to the standard course: it moves more quickly; covers more topics and/or delves more deeply into the subject matter; and/or requires a greater level of self-directed inquiry. During Spring Conference Day, students with their families and advisors submit course requests for the subsequent school year. Students are encouraged to complete the most challenging academic program in which they can be successful while keeping balance in mind.

After the end of the third trimester, teachers review recommendations and may amend them. Students may find that they are recommended for courses for which they had not been recommended earlier, or that they are no longer recommended for courses for which they originally had a recommendation. Teachers notify students and their parents by email in mid-June if there is a change in recommendation(s).

EXTENDED ABSENCE POLICY: HOME STUDY AND TUTORING

Should a student experience an extended absence from school, MKA faculty, under the supervision of the Assistant Head of Campus and the Office of Student Support, provide assignments for the student. MKA faculty assess work assigned on a Home Study. The Head of Campus must approve any exception to this policy.

A student absent from school for an extended period of time due to medical reasons may be eligible to apply for home tutoring support through Essex County Educational Services. A doctor's note verifying the diagnosis and estimated length of absence must accompany an application for tutorial support. The school can help the family to complete the application process only after the student has been out of school for at least 10 consecutive days (or 20 cumulative days). Tutors may not be available in all disciplines. When available, county educational services may provide tutors for two hours each week per discipline for a maximum of 60 school days. In the event of a lengthy medical absence—generally exceeding 60 school days at one time or in aggregate—a student may be asked to withdraw from MKA. The Head of Campus will consider cases on an individual basis.

LANGUAGE ARTS / ENGLISH

The language arts/English curriculum spirals to provide skills practice at increasing levels of mastery with many topics revisited during the middle school years. Five critical and interrelated experiences provide the structure for study: response to literature through individual and group activities; reading self-selected works; rhetorical skills, such as discussion and presentation; composition; and the study of language patterns, including vocabulary, grammar, and usage. Vocabulary is taught as a reading strategy that involves inferring meaning from contextual clues in the literature. A variety of teacher-created exercises address different learning modalities.

Students experience the connection between reading, writing, and speaking each day. Informal writing in journals and notebooks helps students explore new ideas, focus thinking, and spark discussion. Students use the writing process to generate original thinking in forms that may include personal narratives, short fiction, poetry, interviews, news articles, and formal essays. All aspects of the writing process, including using multiple drafts for revising and editing, holding conferences with peers and the teacher, and publishing help students develop ownership of their pieces. Students share and celebrate their final pieces in a variety of ways, which may include bulletin board displays, class books, dramatic performances, iMovies, podcasts, and multimedia projects. Their writing may also be published in *Voices & Visions: Art & Writing from the Middle School*.

In the Upper House, the grammar curriculum focuses on parts of speech, parts of a sentence, punctuation, and usage. A well-articulated scope and sequence for each grade allows students to be able to identify how words, phrases, and clauses function within a sentence. The goal is for students to make the connection between their mastery of specific grammar topics and improved sentence writing. Students use materials created by their teachers as well as online activities to supplement their contextual study of grammar and writing mechanics.

FOURTH GRADE

Reading and Writing Workshops

The literacy program focuses on helping students become lifelong, independent readers and writers who are confident and passionate. MKA's research-based, workshop approach includes mini-lessons and ample time for students to practice skills and receive feedback. As part of their targeted instruction in Reading Workshop, teachers often use selections from novels, poetry, and short stories to model reading strategies for students. Students choose their own books at their independent reading levels and track their progress by examining reading habits using learning progressions, such as enhancing stamina or varying genres. During independent reading time, teachers meet with students, either individually or in small groups, to help strengthen their skills as readers. Students also read in book clubs during the year; and they read a few, whole-class novels, such as *How Tia Lola Came to Stay* by Julia Alvarez, *Number the Stars* by Lois Lowry, and *Tiger Rising* by Kate DiCamillo. During the nonfiction unit, students gather facts, explore text features, and learn to separate facts from opinions as they synthesize information from a variety of nonfiction texts.

During Writing Workshop, students use the steps of the writing process to hone their skills in a variety of structures and genres, including realistic fiction, persuasive essay, poetry, research, graphic novels, and feature articles. The writing process begins with mini-lessons about collecting topics and using planning tools to develop strong story ideas. As they develop their work, students incorporate the craft and structure of mentor pieces in their own writing through multiple revisions and the editing process. Grammar is embedded within Writing Workshop through differentiated mini-lessons and during one-on-one conferences with students. Use of laptops during the writing process helps to facilitate drafting and proofreading. Applications in the Google Suite offer varied formatting and multimedia options for the written word. Final drafts of all completed projects are celebrated with publishing parties that allow students to share their work with their peers and receive feedback.

FIFTH GRADE

Reading and Writing Workshops

The fifth-grade literacy program is designed to allow students the opportunity to practice writing meaningful compositions daily and to read both for pleasure and academic purposes, while fostering a true love and appreciation for literary expression.

Our Reading Workshop curriculum emphasizes student choice in book selection and allows students to select texts of high personal interest. Our units of study include Interpretation Book Clubs, Fantasy, Argument and Advocacy, and Nonfiction. These units stress the skills of analyzing theme, identifying symbolism in literature, and developing comprehension strategies for the increasing challenges of nonfiction texts. Our curriculum is anchored in student choice; thus, students can self-select independent reading books from a varied classroom library based on their interests and reading levels. Reading conferences with the teacher are designed to give students feedback in "real time" as they are working and to provide student-specific coaching and interventions that strengthen their development as individual readers. Students learn to recognize character complexity, support theses, and search for theme-related clues. Readers learn that universal themes can be used as key concepts for understanding their personal lives and the world around them. Assigned literature includes *Song of the Trees* by Mildred D. Taylor, *Tuck Everlasting* by Natalie Babbitt, *D'Aulaires' Book of Greek Myths* co-authored by Ingri Parin d'Aulaire and Edgar Parin d'Aulaire, and Paul Fleischman's *Seedfolks*. Students also continue to explore a variety of literary genres and develop independence and agency in their reading lives through book clubs.

In Writing Workshop, students learn a variety of strategies for generating ideas to develop into entries in their writers' notebooks. Mentor texts and examples of student work are used to model good writing by providing examples of figurative language, effective dialogue, and appropriate use of grammar, syntax, and structure. Additionally, students have opportunities to develop writing stamina through daily practice and personal goal setting for their lives as writers.

Students complete their drafting process and are given frequent and specific instruction to improve their revising and editing skills through mini-lessons and feedback during individual conferences. Students continue to learn spelling rules and common patterns through practice, and they take responsibility for mastery in their own writing.

SIXTH GRADE

Reading for Evidence and Writing with Voice

Rising sixth-grade students choose from a list of six novels that explore a variety of themes, including family relationships and identity. Through small group discussions of summer books, students establish classroom norms for the rest of the year. Summer reading projects or writing assignments give the teacher valuable information about the student as a reader. Students learn a variety of reading strategies through the class texts, which include *The Watsons Go to Birmingham*, 1963 by Christopher Paul Curtis; *The Extraordinary Cases of Sherlock Holmes* by Sir Arthur Conan Doyle; and *The Giver* by Lois Lowry. In particular, students learn to annotate the texts for a deeper understanding of character, conflict, and theme. The range of genres, including realistic and dystopian fiction, 19th century mystery, and poetic memoir, offers the students different narrative structures for telling a story. The poetry unit begins with excerpts from *brown girl dreaming*, a memoir by Jacqueline Woodson written in verse, and continues with the works of other modern poets. During this unit, students have the opportunity to pick their own independent books written in verse and analyze them for deeper understanding.

Students explore the fundamentals of good paragraph writing, including main idea and supporting details, and they learn to develop effective leads and conclusions. Sixth-grade writing includes journal responses to literature; literary essays; a personal essay modeled after the NPR radio series, "This I Believe"; and poetry writing through the creation of a portfolio. In addition to learning formal writing skills, students develop their creativity through project work. Projects include a protagonist identity project, which demonstrates understanding of the mystery genre, as well as debates to help students analyze a story, support their ideas with evidence, and build rhetorical skills. Grammar units on parts of speech, parts of the sentence, and punctuation help students construct better sentences with more attention to voice. Vocabulary units are culled from the literature during the first half of the year and from a workbook focused on Greek and Latin roots for the latter half.

SEVENTH GRADE

Reading for Character and Writing for Impact

Rising seventh-grade students choose from a list of six novels that explore a coming-of-age theme, which informs much of their work in both reading and writing. Through small group discussions of summer books, students establish classroom norms for the rest of the year. Summer reading projects or writing assignments also give the teacher valuable information about the student as a reader.

For the pleasure of a great tale well told and the study of literary elements, students engage with a unit of short stories, ranging from classics by authors such as Shirley Jackson, Ray Bradbury, and Langston Hughes, to young adult fiction by authors such as Todd Strasser and Francisco Jiménez. With a focus on character development and theme, they continue exploring the coming-of-age theme through *All American Boys*, an award-winning novel by Jason Reynolds and Brendan Kiely that includes multiple perspectives. To enhance their understanding of the novel's premise, students read Jason Reynolds' *Stamped: Racism, Antiracism, and You*, the nationally renowned book by Ibram X. Kendi that was rewritten for young adults. Students begin their study of Shakespeare with a lecture and exposure to English sonnets that enhance their facility with Shakespeare's language before encountering it in play form. This knowledge aids them in reading and performing a scene from Shakespeare in class and assists the many students who choose to participate in the seventh-grade theatre production of one of Shakespeare's plays (*Romeo and Juliet, Macbeth, A Midsummer Night's Dream*, or *Twelfth Night*).

Students' study of the writer's craft through short fiction culminates in writing creative pieces. A study of expository writing then informs an essay written in response to *All American Boys* and *Stamped*. Students continue to hone their skills by writing clear, focused paragraphs and gain expertise in forming thesis statements supported by textual evidence. Throughout the year, students write responses in paper or electronic journals to process what they are thinking and to reflect upon strategies for learning new reading and writing skills. Grammar topics include prepositional phrases, complements, and the rules of punctuation. For the unit on punctuation, students must identify the rules for commas, semicolons, and colons that apply to each sentence in an assessment. Vocabulary is culled from the literature during the first half of the year and supplemented by a Greek and Latin roots vocabulary workbook for the latter half.

EIGHTH GRADE

Reading for Self-Discovery and Writing for Action

Rising eighth-grade students choose from a list of six books that explore the themes of belonging, acceptance, and identity. During the year, they read texts that investigate themes of identity and the journey to self-discovery as metaphor through contemporary and classic texts, such as John Knowles' *A Separate Peace*; the poetry of Langston Hughes in the context of the Harlem Renaissance; *The Odyssey* by Homer; and the war unit, which explores narrative nonfiction from soldiers and journalists, including Sebastian Junger's *Tribe*. The latter unit focuses on the conflicts of the soldiers returning home to our society and their need for the bonds of community.

Throughout the year, students learn reading strategies for fiction and nonfiction to help them understand nuances of both whole-class and self-selected, independent reading books. During the nonfiction unit, students read challenging texts, such as Jon Krakauer's *Into the Wild*, Michael Pollan's *The Omnivore's Dilemma*, Rachel Simmons' *Odd Girl Out*, Margot Lee Shetterly's *Hidden Figures*, Temple Grandin's *Animals in Translation*, and Michael Lewis' *Moneyball*, to name a few. Conferring with the teacher supports students' progress with reading, writing assignments, projects, and other activities and assessments, often through a shared notebook. Google Classroom provides a platform for blogs and forum discussions among peers. Students also use laptops to create audio and video projects during the unit on *The Odyssey*.

Students learn to write in a variety of genres, including the literary essay, feature article, poetry, personal narrative, and formal response to literature. All students keep journals, which are used as tools to enhance the writing experience. When doing nonfiction reading and writing, students research journalistic topics and write a feature article for publication—a process that often raises students' awareness of social justice issues and the need for social action. Students also research the Harlem Renaissance before studying the poetry of Langston Hughes, which includes a walking tour of Harlem. The unit culminates in students writing original poems based on "Theme for English B."

Grammar topics include noun, adjective, and adverb clauses and the rules of punctuation. For the unit on punctuation, students must identify the rules for commas, semicolons, and colons that apply to each sentence in an assessment—a review of seventh-grade material at a much more challenging level. Vocabulary is culled from the literature during the first half of the year and supplemented by a workbook focused on Greek and Latin roots for the latter half.

Students attending the Upper School may be recommended for English 101, English 107, or English Honors 113.

SOCIAL STUDIES / HISTORY

The Middle School social studies/history curriculum is focused on continually answering essential questions such as: How and why do people and societies change? How do people's beliefs and value systems affect the way they live? How does geography impact the development of civilization? At each grade level, students use these frameworks to examine various civilizations and cultures. Students are taught not only how to acquire historical knowledge by examining primary and secondary sources but also how to identify the larger patterns, trends, and ethical issues that exist throughout history and throughout the world. The social studies/history curriculum encourages students to fruitfully engage with others in dialogue about current and historical events. Students participate in conversations to raise their level of awareness of local and global issues and learn how to carry on civil discourse with those who represent a variety of opinions and life experiences. Throughout the history and social studies program, students develop historical thinking and research skills, including information gathering, evaluation and use of sources, note taking, organization, and synthesis and analysis of information. They learn the importance of clear, accurate, written expression and documentation of evidence. To demonstrate understanding, students create a variety of artifacts, including historical essays, diaries, oral presentations, maps, and multimedia slideshows.

FOURTH GRADE

Communities on the Move:

Understanding the History of America, Migration, and Immigration

In social studies, students explore geography, focusing on the United States to gain an understanding of how it impacts civilizations. Examining primary source materials, analyzing maps, and practicing research skills all help students gain understanding of various geographical regions.

Fourth-grade students begin with a study of map skills and the geography of the five regions of the United States in order to lay the foundation for the timeline to our year. Through a study of human migration and Native Americans, students work collaboratively, focusing on Native American communities and how basic needs and geographic factors influenced their movement and cultures. A study of Colonial America follows to highlight the development of a nation, and this study includes an examination of the history of racially based enslavement in the 13 colonies and beyond. A field trip to Waterloo Village enriches our study of Native Americans and Colonial America. Students supplement learning gathered from this trip with primary and secondary source research. Following an overview of the American Revolution, students study the causes and consequences of Westward Expansion.

Our study concludes with an examination of industrialization and a comparison of the experiences of European immigration during the Great Wave of Immigration, Chinese immigration during the Gold Rush, and modern immigration today. An in-person exploration of Ellis Island brings a greater understanding of European immigration. Students compare the Ellis Island experience to other immigrant experiences, including entry through Angel Island. They conclude the unit by learning about the modern immigration process. Drawing on all of their learning, students focus on a particular group to study further and complete a culminating project: a paper, article, or slide presentation that introduces the culture of their focus group, the journey that the immigrants embarked on, and the places they settled in America.

FIFTH GRADE

Exploring the Origins of Civilization

Students examine the origins of civilization and culture to explore and answer questions about Mesopotamia, Egypt, Greece, and Meso-American cultures. They apply their understanding as they analyze Mesopotamian art to gain insight into the culture of Sumer and examine the origins of law in Hammurabi's Code. In conjunction with their study of ancient Egypt, students choose a topic of interest for a thesis-driven research paper. They create essential, guiding questions that scaffold note taking; and they conduct a research process, which includes a visit to the Metropolitan Museum of Art in New York City to examine and interpret ancient Egyptian artifacts. The geographic area of study then shifts to the early civilizations of Meso- and South America, as well as the contemporary cultures of Indigenous peoples in these regions. To conclude the year, students then explore the culture and government of ancient Athens and enjoy a feast of Greek delicacies. Through each of these explorations of time and culture, students gain an understanding of how ideas, practices, and technology spread in similar ways around the world.

SIXTH GRADE

Bureaucracy and Belief:

Examining the Early Civilizations of the Middle East, India, China, and Japan

Sixth-grade historians immerse themselves in an exploration of the GRAPES of ancient societies: geography, religion, achievements, politics, economics, and social structures. The curriculum aims to instill empathy for and understanding of all cultures by encouraging students to develop the skill of productive dialogue. Students use numerous online and print sources, including the text *National Geographic World History: Great Civilizations*.

Student course work includes a study of the Silk Road and how its trade routes influenced the development of the ancient world. A unit on ancient India introduces students to the rich history and culture of the Near East, including an introduction to Hinduism and Buddhism. Students examine the cultures in the ancient Far East Asia as well, including a study of ancient and medieval China, Japan, Korea, and Vietnam. The study of ancient China covers the enormity of the ancient dynasties, as well as the religious traditions of Daoism and Confucianism. Students write a thesis-driven research paper on one or two of the ancient dynasties and explore the ways in which their chosen dynasty impacted Chinese society at that time. Their exploration of the social structure, religion, art, and lifestyle of several civilizations in the ancient and medieval time periods also helps students to frame their understanding of the history that is still deeply rooted in cultures of the world today. After studying the Far East, students begin their study of the three Abrahamic religions of the world during our People of the Book unit: Judaism, Christianity, and Islam. Students study the Israelites, the impact of the emergence of Christianity, and the development and spread of Islam and explore the holy sites, texts, and beliefs of these three religions to best understand the intersections between them.

SEVENTH GRADE

Contact and Merging of Cultures: Examining Europe and Africa

Why does the contact of cultures have both intended and unintended consequences? Seventh grade spends the year exploring the "golden ages" of some of the Mediterranean and Atlantic border areas and begin by establishing a firm foundation in geography skills. Students learn about the rise of the Roman Republic, followed by the fall of the Western Roman Empire. They also explore the continuation of the Eastern Roman, or Byzantine, Empire. From there, they examine the roots of the mighty West African civilizations of Ghana and Mali, long-distance trading partners of the Mediterranean empires. The focus returns to Europe with feudal society and the Middle Ages, and then transitions to the Italian rebirth of learning and culture and its subsequent spread throughout the rest of Europe. This study of the European Renaissance corresponds cross-curricularly with the English department's study of Shakespeare, which includes the study of a play in English class and the staging of that play as a theatrical presentation. Students also learn about the impact of the printing press and the increased spread of information, which leads to a focus on the causes and impacts of the resulting Protestant Reformation in Europe and beyond.

20

Table of Contents

After choosing a research question related to our study of ancient Rome, students complete a research project from beginning to end. Classes focus on the skills and organizational techniques necessary to plan, research, write, and revise a research paper. Students engage in research projects throughout the year, such as researching a famous Black figure from American history to portray in the Black History Month Living Museum and researching an aspect of European Renaissance culture to display in a Renaissance Fair.

EIGHTH GRADE

Native Peoples, Colonial Settlers, and European Empires in North America

Eighth-grade social studies makes history come alive by asking students to experience history on a daily basis. Students are encouraged to think about the past and not just to memorize—to understand that they are the products of past generations and have a responsibility to continue that legacy through responsible and active citizenship. As they study the many groups and individuals responsible for North American history, students continually ask questions about inclusivity and belonging throughout history. Students experience history through a multitude of resources, including primary sources; art; literature; movies; music; resources from Colonial Williamsburg, Virginia; and multiple primary and secondary texts derived from a variety of credible, historical sources.

Course work begins with examining the lenses through which we view history, specifically Native Americans, Africans, and the European settlers during early contact. By studying the nature of encounters between Indigenous groups like the Powhatan and the Wampanoag, students learn to see history through different worldviews. Classes then examine the diversity of the 13 colonies and move to a brief study of Magna Carta and the English Bill of Rights, so students can better understand the specific causes of the American Revolution. Students view and discuss key sections of the film 1776 to better understand the titanic issues that led to the writing of the Declaration of Independence, which united the nation yet also forged the causes for our cataclysmic Civil War. In this study, they expand their knowledge of various stakeholders during the war and the roles many groups played in the founding of the United States. To understand the foundations of the American mindset, students must choose the philosophy of either Thomas Hobbes or John Locke to represent their own beliefs on the nature of man. Later, students explore the early American Republic from the failures of the Articles of Confederation to its replacement with the Constitution.

Studying the first presidential administrations, students decide if the ideas of Alexander Hamilton or Thomas Jefferson would work best for the new nation. This analysis also helps students to decide where they stand politically today. While studying sectionalism and expansion, students use these analyses as a basis for examining causes of the Civil War. Additionally, students study the concept of judicial review through the foundational case of Marbury v. Madison and then through other, more recent, landmark Supreme Court decisions as they pertain to American citizenship and values.

With their constitutional understanding as a foundation, students study civics to become aware of the current U.S. political system and their potential to foster change. Students apply what they have learned throughout the year about the benefits and responsibilities given to them as citizens of the United States by identifying a civic problem, examining potential solutions, and implementing a plan to bring about change in their own communities.

Students attending the Upper School may be recommended for Modern World History or Modern World History Honors.

MATHEMATICS

Our curriculum is designed for our students to explore and master mathematical concepts and to become effective problem solvers. In class, students are expected to actively participate, take risks, make and learn from mistakes, work collaboratively, and think flexibly. Projects and differentiated instruction provide students with opportunities for exploring math concepts that ensure they are both appropriately challenged and comfortable with learning math. Students have various opportunities to explore mathematical concepts through national math contests and competitions and collaborative and independent exploration during math clubs.

The mathematics program in the Lower House continues the Everyday Mathematics 4 program. The core of the K–5 math program is the research-based Everyday Mathematics 4 program. The spiral curriculum enables students to achieve mastery by revisiting topics in a variety of contexts over time. The goal of this math program is to develop computational fluency and to help the students become confident, effective problem solvers. Students are introduced to abstract mathematical concepts through real-life experiences.

Students deepen their understanding of mathematics and practice reasoning skills through open-response problems and reengagement lessons. The first day of these two-day lessons provides the opportunity for students to solve a challenging problem that involves more than one possible strategy or solution. On the second day, students re-engage with the problem by examining and discussing their own and other students' solutions to deepen their understanding of the mathematical content and practices involved. Students then revise their own work from the first day of the lesson. They draw upon their mathematical understandings, ask insightful questions, and communicate their mathematical thinking.

The mathematics program in the Upper House provides students with two sequences of study. Students in sixth grade take Math 6 or Pre-Algebra. Students in grade seven take Pre-Algebra, Algebra 1A (the first half of Algebra 1), or Algebra 1. All students complete their study of Algebra 1 by the end of Middle School, and some students complete Geometry. Teachers place students in math classes according to their math background, learning habits, and achievement.

EVERYDAY MATH (Fourth Grade)

Fourth-grade students build their number sense. They explore addition, subtraction, multiplication, and division methods. Additionally, they develop an understanding of fraction equivalence and perform addition, subtraction, and multiplication of fractions. While studying measurement and geometry, students convert units and apply formulas to compute the area and perimeter of geometric figures. Woven into their learning, game-play and manipulatives allow for choice and collaboration in order to enhance their understanding of the concepts.

EVERYDAY MATH (Fifth Grade)

Fifth-grade students develop an understanding of signed numbers, reason with percents, integers, divisibility rules, and traditional long division. Additionally, students collect, organize, and interpret data.

Problem solving is a key component of the curriculum. Students explore problem-solving strategies through real-life problems, such as creating a working budget and designing a space within set dimensions. As students engage in solving open-response problems, special emphasis is placed on providing convincing arguments and understanding others' reasoning.

INTRODUCTION TO PRE-ALGEBRA (Sixth Grade)

Sixth-grade math students expand and practice problem-solving skills through real-life situations.

Students explore rates, ratios, and proportions using real life examples involving MKA and professional sports teams, shopping, and other topics that are relevant to students' lives. They also study percentages and geometric concepts and continue to develop numerical reasoning by working in greater depth with integers, fractions, decimals, exponents, and prime and composite numbers, as well as multistep equations. In preparation for a deeper study in Pre-Algebra and Algebra 1A, students are introduced to order of operations and solving equations, and they expand their work with coordinate planes. Students apply the concepts they learn to develop mathematical models that help them make sense of social, environmental, and economic issues that include different types of jobs, cost of living, taxes, and budgeting. Conversations about distribution of wealth and poverty are included in this unit. It culminates in a budgeting project where each student is assigned a random job and city and must then create a workable budget and make real-life choices about paying for housing, transportation, and the basic necessities for life.

Students may be recommended for Pre-Algebra or Algebra 1A in seventh grade.

PRE-ALGEBRA (Sixth and Seventh Grades)

Pre-Algebra students begin the upper-level mathematics sequence by working with variables to develop key mathematical skills, including order of operations, ratios, proportions, inequalities, word problems, graphing, and two-step equations. The study of algebra naturally evolves from recognizing, describing, and making generalizations from pre-algebra patterns studied.

Students extend their understanding of the number system to include integers, rational and irrational numbers, and negative exponents. They explore the link between verbal, symbolic, and graphic models; and they use these models to solve problems. Students make connections to geometry as they use formulas and variables to describe the perimeter and area, surface area, and volume of various geometric figures. Topics also include an introduction to linear functions including rate of change, slope, and graphing on a coordinate grid. Students apply the concepts they learn to develop mathematical models that help them make sense of social, environmental, and economic issues, such as finding areas of irregular figures in Times Square to see how much of the visual space is composed of advertisements and combining the study of measures of center and percents to determine wealth distribution.

Students in sixth-grade Pre-Algebra may be recommended for Algebra 1A or Algebra 1 in seventh grade. Students in seventh-grade Pre-Algebra take Algebra 1 in eighth grade.

ALGEBRA 1A (Seventh Grade)

Algebra 1A begins with helping students transition from thinking and working arithmetically with numbers to thinking algebraically about numbers. Students are introduced to and begin practicing algebraic language theory, particularly how to read and translate the symbolic and theoretical language of algebra into mathematical statements that describe relationships. Of equal value are the analytic, relational, and qualitative reasoning skills students develop that enable them to think abstractly and logically. This material reflects key concepts presented in sixth-grade Introduction to Pre-Algebra and in Pre-Algebra but with a more purposeful and differentiated approach to engage all learners. This course then progresses through the various topics in algebra, such as solving multi-step equations and inequalities; understanding real and rational numbers, simple and complex fractions, rates, ratios, proportions, and direct variations; finding slope and rate of change; graphing linear equations and functions; and solving and graphing linear inequalities. Students learn to write linear equations and inequalities in standard, slope-intercept, and point-slope form. Real world examples complement lessons, such as graphing linear functions representing wages of workers, cell phone plans, car rentals, utility bills, shipping costs, distances traveled, savings, population growth, resource consumption, carbon emissions, inflation trends, and unemployment rates. Students choose the best deal for a given situation using systems of linear equations. To enhance learning and comprehension, students engage with manipulatives as well as technology.

Algebra 1A students may be recommended for Algebra 1B or Algebra 1 in eighth grade.

ALGEBRA 1B (Eighth Grade)

In Algebra 1B, students further develop skills learned in Algebra 1A—such as recognizing patterns, describing relationships, and formulating mathematical statements—but move on to more in-depth, abstract, algebraic concepts by developing algorithms and applying algebraic properties to solve mathematical statements. Students examine exponential properties of multiplication and division, exponential growth, and decay functions; solve quadratics using factoring and the quadratic equation; explore the Pythagorean theorem and its converse; relate exponential and quadratic functions to real life situations; and work through radical and rational functions and expressions. Real world examples include exploring exponential growth and decay through interpreting real life data based on incarceration rates, transmission of viruses, and the monetary worth of electronics, as well as using measurements of height and initial velocity to determine if a player will make a basket from the three-point line.

Students in Algebra 1B may be recommended for Geometry or Geometry Honors in ninth grade.

ALGEBRA 1 (Seventh and Eighth Grades)

Students extend the depth of their algebraic understanding in Algebra 1. They learn the algebra of linear equations and inequalities, including probability concepts with algebraic fractions, and focus on graphing techniques. Students learn the rules of exponents, including solving for unknown exponents. Students investigate the properties of systems of equations, polynomials, and square roots. In the context of contemporary applications in science and personal finance, they study curvilinear functions, represented by exponential growth and parabolas. Students explore how to collect and analyze data for independent and dependent variables and determine best fit lines and their equations in order to make predictions. Testing those predictions leads to an analysis of other variables involved. Students apply the concepts they learn to real world examples such as evaluating the height and shoe size of NBA players to see if the relationship is linear.

Students in seventh-grade Algebra 1 may be recommended for Algebra 1B or Geometry in eighth grade. Students in eighth-grade Algebra 1 may be recommended for Geometry or Geometry Honors in ninth grade.

GEOMETRY (Eighth Grade)

Geometry begins with an introduction to the terms and methods through which the field of Euclidean geometry was developed, and students use these fundamental building blocks throughout the year to derive powerful theorems and develop an understanding of geometric concepts. They learn to compose formal proofs, including the traditional, two-column form, to promote an understanding of the thought process required when working in a deductive system. Students apply Algebra 1 skills to solve challenging problems in a geometric context. Topics studied include triangles, quadrilaterals, circles, and other polygons; congruent and similar figures; parallel and perpendicular lines; area, volume, and surface area; and trigonometry.

While often abstract and theoretical, the study of geometry has a connection to the real world, as it provides a framework for understanding spatial relationships and forms. Students can conceptualize and describe the shapes, structures, and patterns that underlie both natural and human-made environments, helping them better understand the physical and spatial worlds in which we live

This course presents the same content and is at the same level as the Geometry Honors course offered at the Upper School. Students may be recommended for Algebra 2, Algebra 2 Honors, or Advanced Algebra 2 Honors.

SCIENCE

The science curriculum is designed to help students develop STEM skills and a STEM+ mindset that they will use to navigate a complex world and solve tomorrow's toughest challenges. Intended to address the unique characteristics of Middle School learners, it engages student-scientists in their learning through experiments and observations. Students study the relationships betwee force and motion, Earth and space, energy and the atmosphere, organisms and their ecosystems, and the behavior of matter. To better understand these natural phenomena, students build on their prior knowledge and experience to apply problem-solving strategies in new contexts and develop their ability to formulate hypotheses, explore relationships, discover patterns, and build evidence-based arguments. Working both independently and collaboratively, students have many opportunities to design experiments, test procedures, collect and analyze data, use data to support conclusions, and communicate findings using the scientific principles they study. Throughout the Middle School science program, the MKA Science Process Rubric is used to guide and inform skill development and scientific habits of mind as students perform authentic research and experience science firsthand.

FOURTH GRADE

Emerging Scientist: Investigating Forces and Motion through STEM

In fourth grade, students engage in their learning as scientists in ways that mirror real-world science. Fourth-grade science capitalizes on students' natural curiosity and harnesses their creativity to develop a passion for science and scientific inquiry. Students learn about the world around them by developing scientific skills: observing, recording data, asking testable questions, making predictions, testing ideas, and reflecting on their thinking. Students learn how to use science tools in context.

Throughout the year, students use the engineering design process to solve a series of STEM challenges by designing and building simple devices. They ask questions, identify problems, plan, create, and test their designs of catapults, balloon cars, marble mazes, straw gliders, and simple machines. The STEM devices are then used to introduce how various physical forces work and affect motion. Forces covered this year include gravity, applied force, elastic force, and friction.

Students culminate the year with research on global climate change by exploring their physical and social impact on a region of the world to which they have a personal connection.

FIFTH GRADE

Understanding Your World: Matter and Our Food Systems

Fifth-grade scientists focus on understanding how the world around them is put together as they begin the year studying the chemistry of matter. They answer the question, "What is the difference between a mixture and a solution?" By using different methods to separate mixtures and solutions, they learn about concentration, homogeneous and heterogeneous mixtures, and solubility. As they engage in these activities, students also develop important skills in experimental planning, identifying and controlling variables, and working collaboratively with their peers. Building on these STEM understandings, students learn about chemical reactions and use the knowledge they have gained to plan and conduct scientific investigations, enhancing their critical thinking and teamwork abilities.

Through hands-on experiences growing and cultivating food, students conclude the year by examining their ecological footprint through the lens of what they eat. The garden curriculum ties in with the fifth-grade language arts book, *Seedfolks*, by Paul Fleischman.

SIXTH GRADE

Our Home in Context: Planet Earth in Space and its Changing Climate

The curricular theme of the year is understanding Earth as a planet and as our home within the larger context of the cosmos. In sixth grade, students tap into their natural curiosity about their world and the solar system by studying Earth's climate systems, the phenomena related to the Sun-Earth-Moon system, and our cosmic neighborhood. Through a series of hands-on activities and modeling, students visualize Earth in comparison to other bodies in the Solar System including the Sun, Moon, and the diverse nature of objects in the solar system. Students grapple with the concepts of scale and orbital motion.

Sixth-grade science gives students a chance to understand their world from a scientific perspective. They increase their scientific literacy through conducting observations, making inferences, developing hypotheses, and learning to design experiments. Through hands-on STEM challenges, they also engage in the engineering design process.

By assuming the lens of NASA scientists past and present, students are able to explore the interconnected nature of Earth, our cosmic neighborhood, and the practical challenges involved in space exploration. Over the course of the year, students can increasingly appreciate how greater understanding of Earth provides insight into the nature of space, and vice versa.

Through investigating the Earth, Moon, and Sun, students analyze models and data to understand lunar phases, eclipses, seasons, forces of motion, gravity, and the three-dimensional fabric of space itself. While examining the evidence for and impacts of climate change, students reflect on what is being done currently as well as what can be done in both the near and distant future to address these complex issues, including how they themselves can make a positive impact on the world.

SEVENTH GRADE

Our Home in Context: Diversity of Life & Populations and Ecosystems

Students begin the year honing their laboratory skills by making precise measurements using specific equipment in a proper manner. Students study the diversity of life and develop an understanding of the structure-function relationships in living organisms. They first explore the common characteristics of all living organisms and then learn how cells function as the basic unit of life. Through extensive work utilizing compound microscopes, students study individual plant and animal cells as well as microscopic organisms, such as protists. They also conduct in-depth investigations of key structure-function relationships in cells. Students round out the Diversity of Life study by applying the levels of cell organization to organ systems, such as the digestive and circulatory systems.

Seventh-grade scientists explore the components of ecosystems in depth. Students begin with an examination of the individual within an ecosystem and expand to consider the ecosystem as a whole. They investigate the biotic community and the abiotic environment by looking for patterns as they analyze data. Through experiments and activities that model relationships between organisms in different trophic levels, students explore the transfer of energy.

Students come to understand genetics as the science of heredity, a function of all living things that both maintains and transfers the code for reproducing life with similar traits from generation to generation. Students learn the basic genetic mechanisms that determine which traits individuals will express in a population and to explain how organisms inherit traits from their parents. Finally, students begin to learn about adaptations and evolution in connection with their study of populations and ecosystems.

Throughout the year, students continue to develop, practice, and hone STEM skills in researching, designing, and conducting scientific experiments. The year culminates with students writing a full lab report based on their research, experiment, and analysis.

EIGHTH GRADE

Our Home in Context: The Chemistry of Matter & Independent Research

Students explore key chemistry concepts as they work to understand the nature of matter—its properties, composition, and structure. This understanding is fundamental to explaining many scientific phenomena and provides a key foundation for students to develop their own independent research projects during the eighth-grade year. Students begin the year by reviewing safety protocols and practicing their laboratory skills. They examine real-world situations that help them to develop an understanding of chemical interactions, including elements, the periodic table, atomic structure, chemical bonding, phase changes, heat transfer, chemical reactions, and acids and bases. As they develop their understanding both individually and collaboratively, they use their acquired STEM knowledge to answer real-world questions. Throughout their studies, students use the detailed Eighth-Grade Science Project Report Rubric to guide and support their laboratory investigations and analyses.

As a culmination of their Middle School science experience, students apply their understanding of science and the scientific process to conduct an independent research project of their own design. In the first half of the year, preparatory activities and assignments ensure students have the skills they need to complete their own independent work successfully. Students choose a research topic based on their interest and apply the scientific process in order to create a procedure to solve a problem that they have identified. Using the Science Project Report Rubric and outline templates for each stage of the process, students act as scientists as they research to create a testable question, develop a hypothesis, design an experiment, collect and analyze data, and present their results and conclusions in writing and through presentations to an audience of peers and adults in the community.

Students attending the Upper School may be recommended for Biology 1, Biology 1 Honors, or Biology 1 Science Research Honors.

WORLD LANGUAGE

In world language classes, students explore language through themes of interest to them in a collaborative, interactive environment. Students are immersed in a communicative approach that fosters mastery of four key skills: listening, speaking, reading, and writing. Interwoven with technology to enhance learning, the spiral curriculum ensures that students revisit and gradually build on previous knowledge and skills. They focus on themes from daily life—including family, friends, school life, and town living—and learn grammar in a contextual setting that conveys meaning.

To encourage fluency and authentic assessment in the modern world languages, students practice listening to a variety of authentic audio resources from many different countries (with many different accents) to improve their listening comprehension. They practice speaking using a wide variety of technology applications.

Students in all world language classes learn to read for understanding, using specific strategies to improve their reading comprehension and fluency. Most of the reading selections they encounter are culturally based and relate directly to the countries where the language of study is spoken. To improve their writing in the target language, students practice writing frequently—first developing sentences and then short essays by the time they reach eighth grade. Technology applications also help students to organize and present their writing. As they engage in the writing process, students use feedback from their teacher and peers to revise, refine, and edit their work.

Students embark on cultural explorations of the French-, Mandarin Chinese (*Pŭtōnghuà*)-, and Spanish-speaking worlds and consider historical as well as global perspectives. On a daily basis, students explore connections between the language they are studying and the culture that it shapes.

*A minimum of 5 students is required to offer any of the language courses below.

CHINESE, FRENCH, AND SPANISH:

BUILDING COMMUNICATION SKILLS (Fourth Grade)

Students develop basic communication skills through interactions conducted in the target language: French, Mandarin Chinese ($P\check{u}t\bar{o}nghu\grave{a}$), or Spanish. Study enhances students' ability to understand the language and retain basic vocabulary. Students develop communication skills and explore culture as they learn about the countries where the target language is spoken. Language acquisition is reinforced through repetition, teacher modeling, and gesturing. Students sing, dance, listen to music, and participate in a variety of interactive, hands-on activities and language games. Multimedia tools are frequently used to provide visual and auditory support to engage and instruct students.

CHINESE, FRENCH, AND SPANISH:

EXPANDING COMMUNICATION AND EXPRESSION (Fifth Grade)

Fifth-grade students of French, Mandarin Chinese ($P\check{u}t\bar{o}nghu\grave{a}$), or Spanish build on the foundation created in fourth grade by expanding their writing and reading skills. Thematic units provide students with an exciting context for acquiring vocabulary and simple grammar. Students use a variety of technology and applications to practice what they learn and to demonstrate their understanding and mastery of vocabulary and basic grammar skills. They readily initiate oral expression in the target language and are able to answer simple questions while following instructions. They read short passages related to the thematic units and practice writing grammatically correct sentences. Culture is infused in classroom activities that familiarize students with customs, cuisine, and fashion. At the end of fifth grade, students decide if they will enroll in French 1A, Chinese 1A, or Spanish 1A in sixth grade.

CHINESE LEVEL 1A (Sixth and Seventh Grades)

Through a wide variety of interactive activities, such as web-based practice and technology-infused projects, students focus on increasing oral fluency with particular attention to acquiring accurate tones and pronunciation of Mandarin Chinese ($P\check{u}t\bar{o}nghu\grave{a}$). Students learn vocabulary and grammar that enable them to describe themselves, family, and friends; explain daily routines; and use time expressions. The pinyin system of the romanization of the Chinese characters is used at first to introduce students to reading. Students begin to read and write simplified Chinese characters. Chinese culture, geography, and history are important components of the course and are taught through video clips, readings, and projects. At the conclusion of this course, students should be able to engage in a simple conversation and write using simplified Chinese characters.

CHINESE LEVEL 1B (Seventh and Eighth Grades)

Students continue the study of Chinese they began in the Level 1A class. They learn vocabulary related to day-to-day activities and the natural world, and they study a more advanced sentence structure. Students continue to develop their skills through interactive activities and technology-infused projects; they focus on increasing oral fluency with particular attention to acquiring accurate tones and pronunciation. In learning to read, they use the pinyin system of the romanization of Chinese characters. They continue to read and write simplified Chinese characters and write simple sentences about topics, such as the weather, clothing, hobbies, sports, and school schedules and subjects. Students study culture, geography, and history through video clips, readings, and projects.

Eighth-grade students may be recommended for Upper School Level 1 or Level 2.

CHINESE LEVEL 2 (Eighth Grade)

Level 2 Chinese students focus more on interactive communication in real life. A variety of innovative and interactive activities create an authentic language environment to prepare students to comprehend and engage with native speakers in daily conversations. Regular writing and reading practice incorporates theme-based topics, including ordering food, shopping, travel, etc., and helps students to expand vocabulary, internalize more complex grammatical constructions, and enhance comprehension. By the end of the year, students are able to demonstrate a higher level of fluency.

Students may be recommended for Upper School Level 2 or Level 2 Honors.

FRENCH & SPANISH LEVEL 1A (Sixth and Seventh Grades; Eighth Grade, Spanish Only)

Level 1A students learn to express themselves on familiar themes, both orally and in writing. Students build a working vocabulary through continuous exposure to new words, learning in the target language, and frequent collaboration with peers. Through dialogues, story telling, acting out scenarios, word games, and creating presentations, students build their fluency with the language. They learn to describe themselves, family, school life, and leisure activities. Students learn how to use nouns, adjectives, and verbs through modeling, identifying patterns, and playing kinesthetic games. Basic reading strategies include recognizing cognates to deduce meaning. Language learners become more geographically aware of the countries of study and their relationships with the United States. By the end of the year, students are able to carry on a limited conversation and write in clear, concise sentences.

FRENCH & SPANISH LEVEL 1B (Seventh and Eighth Grades)

With increased fluency, students in Level 1B are able to describe the details of their daily routines, such as going to places in town and activities around the house. They are expected to express their learning both orally and in writing. Language learners expand their vocabulary base with words and expressions related to cooking, city and country life, household tasks, and pastimes, such as shopping and eating out. Realia, map talks, readings, and videos help students to better understand the lives and cultures of those living in the countries of study. A Spanish unit also explores artist Frida Kahlo's far-reaching impact on Mexican culture.

While Level 1B students develop their listening and oral skills, they increasingly focus on reading comprehension and writing. Reading short stories reinforces basic reading strategies. Students develop an awareness of sentence structure and an increased understanding of grammar and its complexities through the writing and editing process. Students regularly engage in collaborative tasks that promote practice, revision, and retention and enable them to better correct themselves. Technology engages students and broadens their exposure to the target language. By the end of the year, students can express themselves both orally and in writing using the present tense. Spanish learners end the year with an introduction to the simple past tense.

Eighth-grade students in 1B may be recommended for Spanish 1E or Spanish or French Level 2 at the Upper School.

FRENCH & SPANISH LEVEL 2 (Eighth Grade)

Level 2 French and Spanish students move beyond pattern responses to expressing their own ideas in the target language. Exchanges between students and teacher reinforce learning through reading, writing, speaking, and listening practice that enhances vocabulary and grammar concepts. Through a variety of innovative exercises—including creating videos, commercials, interviews, art critiques, and multimedia presentations—students engage authentically with the material. Regular writing projects enable students to describe and narrate events in a variety of verb tenses. Students write and edit work on a continuous basis. Culturally based reading units provide students with opportunities to hone their reading strategies to enhance comprehension. By the end of the year, students are able to demonstrate fluency at a higher level and show mastery of the present tense and past tenses.

Students may be recommended for Upper School Level 2 or Level 2 Honors.

FINE AND PERFORMING ARTS

By experiencing fine and performing arts study in a variety of art forms, students have many opportunities to learn about art genres, develop self-expression and self-discipline, and take creative risks.

In the Lower House, our process-oriented curriculum provides students in fourth and fifth grade with the opportunity to express themselves in new and more sophisticated ways. Through yearlong, musical performance classes in chorus, band, and strings and quarterly classes in art, dance, theatre arts, and music, students come to appreciate the joy, beauty, and wonder of the arts and discover their limitless potential for creative expression. Students and teachers use SeeSaw, an online portfolio application, to demonstrate progress and learning.

In the Upper House, sixth-, seventh-, and eighth-grade students choose among an even wider variety of yearlong and trimester-length production and performance classes. They continue to develop as artists and performers through these broader experiences and deeper exposures to the arts. In addition to potentially pursuing a passion, students are encouraged to explore areas of the arts that they are less familiar with as part of their journey as reflective humans and lifelong learners.

LOWER HOUSE YEARLONG COURSES

All fourth-grade students participate in yearlong Chorus to build foundational musical skills and concepts. In addition, students will also participate in either Concert Band or Strings so that every MKA student has the opportunity to learn an ensemble instrument. All groups rehearse during school as a full ensemble, and group lessons for strings and band instrumental sections take place once a week after school. Fifth-grade students may choose Chorus, Concert Band, or Strings. As in the fourth grade, all three groups have full, yearlong rehearsal during school, and the strings and band instrumental sections have group lessons after school once a week. The Chorus and the Fourth- and Fifth-Grade Concert Bands each participate in a winter and spring concert, and the Strings participate in an annual performance. Every other year, the Strings performance is held at Carnegie Hall.

LOWER HOUSE QUARTERLY COURSES

Art

The fourth-grade art course focuses on the basic elements of art, such as shape, line, color, texture, and form. Using a variety of materials, students are encouraged to be creative in problem solving and to express themselves through art while they learn how to discuss their projects and ideas with others. In addition to their work as artists, students learn to speak the "language of art," as well as to examine works of contemporary art and great artists of the past. The fifth-grade curriculum includes artist Alexander Calder, whose work is accessible to this age group through its playfulness and the simple shapes and colors that define it. In creating works based in the style of Calder's famous "Circus," students are introduced to kinetic art and contour line drawing. Collaboration with social studies, students create two-dimensional projects based on Greek mythology. Both fourth- and fifth-grade students periodically display selected work throughout the school.

Dance

Student dancers are engaged in an interactive exploration of the vocabulary, principles, and elements of many dance styles. Fourth- and fifth-grade dancers are introduced to the genres of ballet, modern, jazz, lyrical, and hip-hop, ballroom, tap, contemporary dance presented in cultural and historical context. Classes focus on student development of kinesthetics, body awareness, technical ability, spatial expressiveness, and personal creativity.

Music

Through both instrumental and vocal music, students in grades four and five develop the building blocks for appreciating music from a wide variety of world cultures. As they sing and play percussion instruments, and keyboards, students learn music notation, two-part harmony, rhythm, and solfège. Fourth-grade students examine *Peter and the Wolf* by Sergei Prokofiev. During this study, students become acquainted with orchestral instruments and themes. In fifth grade, students explore how composers communicate with an audience through the artistry of the performer. Instruments are used to guide students in developing their musical skills. Students expand their knowledge and use of musical notation, and they complete the course by crafting and performing their own original, musical composition.

Theatre Arts

Why do we tell stories? What does it mean to remember? What makes storytelling artistic? How can the theatre tell artistic stories? Fourth-grade students ask themselves these questions to create a space for thoughtful creativity. They explore the tools of an actor: the voice, the body, and the imagination. They then do a series of exercises in which they create unique characters and engage in short improvisations. Skills and content are interwoven in the creation of a theatrical piece based on this study. The fifth-grade theatre curriculum directly relates to students' study of ancient Greece and Greek mythology. Students dive into Greek theatre as they learn about the first Western actors, the chorus, choral speaking, and the use of choreographed movement on stage. They then apply these tools to staging a short piece from *The Odyssey*.

UPPER HOUSE TRIMESTER COURSES (Classes meet three times per cycle)

Art (Sixth, Seventh, and Eighth Grades)

Sixth-grade students learn to express themselves through drawing, collage, and painting as they focus on the principles of art, such as repetition, emphasis, and rhythm, as well as study the basic elements of art, such as color, line, and shape. Students routinely examine examples of contemporary art and great artists of the past. The focus of the seventh grade is drawing. Students learn to represent three-dimensional images on a two-dimensional surface. In conjunction with the seventh-grade study of the Renaissance in social studies, students learn to draw using perspective. Focusing on conceptual art, eighth-grade students are encouraged to take chances with their art and explore unconventional ways of expressing their ideas. Students are exposed to many of today's elite artists and have the chance to discuss their works with classmates using a refined art vocabulary. Class critiques for every project help students to celebrate the strengths of their work and plan for revisions. Students periodically display selected work throughout the school.

Dance (Sixth, Seventh, and Eighth Grades)

Dance explores the dynamic fundamentals of choreography and varied techniques of classical ballet, modern, jazz, Latin, Caribbean, tap, and hip-hop. Students examine four elements of choreography—design, dynamics, motivation, and rhythm—and explore the historical importance of each. Students develop and perform engaging, original choreography projects and have the opportunity to self-assess by viewing their projects on video. All sixth-grade students focus on *Revelations* by Alvin Ailey.

Media Art (Sixth, Seventh, and Eighth Grades)

Students study basic techniques for creating digital images and movies with an emphasis on the elements of design and the principles of composition. Students practice these skills using Adobe Photoshop, a powerful tool for manipulating and creating digital art and animation. Over the trimester, students practice self-critique in written artist statements and group critique as a class.

Theatre Arts (Sixth, Seventh, and Eighth Grades)

In sixth grade, students revisit the building blocks of acting skills, taking a deeper dive into meaning and application. Additionally, the course focuses on elements of vocal production and articulation. Students explore the methodology of Stanislavski, specifically in regard to objectives, actions, and obstacles. Classroom performance projects are commercials; fractured fairy tales; character interviews; open-ended scenes; and, when time permits, pantomime.

In seventh grade, students review the building blocks of acting skills and explore how application supports the craft. They also review vocabulary and methodology of "The Method" and Stanislavski. During class activities, students perform and come to understand performance through multiple approaches, including those of Uta Hagen, Stanford Meisner, Viewpoints, and Frantic Assembly. The trimester ends with an original, devised theatre piece entitled "I Am From" where students examine their heritage and past life experiences to create an individual, original poem supported by and in collaboration with classmates.

In eighth grade, students review the building blocks of acting skills and how their application supports the craft. They briefly review the methodologies learned in sixth and seventh grades. The course focuses heavily on improvisation and devised theatre, and the final project includes script writing. Class performance pieces are created around identity, belief, and belonging. The written piece is inspired by a selected piece of artwork.

Music Technology (Sixth Grade)

Students create music through exploration of different types of music technology software. They use GarageBand to create songs that incorporate core musical ideas, such as rhythm, harmony, melody, and form. Students also learn basic keyboard skills to assist them in their final composition project.

Building Spaces (Seventh Grade)

Art and architecture are inextricably linked to how societies function and understand themselves. This class illuminates the relationship between the life experiences of everyday people and the spaces where they work, shop, and worship. Students engage in an interdisciplinary approach, examining the history, art, mathematics, and literature of various civilizations as they come to their own conclusions about what kinds of spaces they would want to live in. Students complete a final project in which they take what they have learned and construct a town square with all of the necessities of life—from housing to government structures—to foster a diverse culture and society.

Shades of Pop (Seventh Grade)

Students are introduced to the history of music theory for different genres of music. As students take a journey through the development of music, they complete assignments and projects where they create original music using the styles that are representative of popular hits from various eras.

Digital Media (Eighth Grade)

Students explore digital music creation by mixing and remixing their own music using GarageBand and other tools. The class introduces students to music editing and how music and sound affect the film, TV, and Internet productions and the video games they enjoy on a daily basis. Students also form a vocabulary and skill set focused around musical genres, including hip-hop, pop, and electronic music.

Modern and Contemporary Art (Eighth Grade)

Focusing on conceptual art and graphic design, students are encouraged to take chances with their art and explore unconventional ways of expressing their ideas. The majority of the projects are three dimensional. Students create work inspired by an introduction to the works of contemporary artists and graphic design firms. They have the opportunity to participate in informed discussions about these works and develop the skills to participate effectively in class critiques, which are held for every project. Selected student works are periodically displayed around the school.

Performance Ensemble (Eighth Grade)

This year, the Ensemble performs Roald Dahl's *James and the Giant Peach*. The story revolves around a young orphan named James Henry Trotter who escapes his cruel aunts and embarks on a magical journey across the Atlantic Ocean. This class meets three times per cycle.

Ukelele (Eighth Grade)

Students learn basic to intermediate level ukelele performance skills. The skills allow students to work independently and collaboratively in order to learn their favorite songs as well as traditional ukelele literature.

UPPER HOUSE YEARLONG COURSES (Classes meet three times per cycle)

In addition to the yearlong classes below, students in sixth through eighth grade are also eligible to participate in the select groups of Jazz Band and Chamber Singers, which meet during FLEX time and are open by audition to those at an advanced level. Select Strings meets regularly and is open by audition to advanced strings players in all Middle School grades. Members of the select and yearlong music performance groups may travel to and participate in the Music in the Parks Festival in May.

In addition, the Studio Art Program, the Jazz Band, the Strings Program, and the Dance Program all have winter or spring performances or shows that represent the combined efforts of Middle and Upper School students. These collaborations provide Middle School students with the opportunity to work with Upper School mentors and role models as they experience the kinds of opportunities that lie ahead for them.

Upper House students can also participate in a play at each grade level. The sixth-grade play is open to any interested student in sixth grade as an after-school activity in the winter season. The seventh-grade Shakespeare production is part of the English curriculum and also relates to the study of the Renaissance Period in social studies/history. Students are invited to be involved in many aspects of the play—both backstage and onstage. The eighth-grade play involves a select group of students in eighth grade who are enrolled in Performance Ensemble and work as cast and crew members to produce the show as part of their fine and performing arts, trimester-long course in the fall. Plays may be submitted to the Foxy Awards, which recognize excellence among New Jersey schools in areas of performance, direction, design and technical theatre, and outstanding production.

Chorus (Sixth, Seventh, and Eighth Grades)

Students continue to build their musicianship through performance of a varied, choral music repertoire that includes two-, three-, and four-part harmonies. Beginning in sixth grade and continuing through eighth grade, students also learn and practice solfège skills to enable them to read, audiate, and sing basic music passages by sight with pitch identification and accuracy.

Concert Band (Sixth, Seventh, and Eighth Grades)

Students in sixth, seventh, and eighth grades continue to build on the basics of instrumental and ensemble playing skills established in fourth and fifth grades. They explore more complex rhythms, advance their skills on their individual instruments, and perform more intricate ensemble music. Multiple grades combine forces for an enhanced performance experience. After the spring performances, all Concert Band students explore alternate forms of composition, work on sight-reading skills, and learn basic music theory.

Rhythm & Dance (Sixth, Seventh, and Eighth Grades)

Rhythm and counting are crucial parts of every dancer's life. Students learn various, characteristic rhythms through a diverse selection of music, including classical, jazz, folk, progressive, alternative, Afro-Caribbean, and swing. The class also explores the dance genres of ballet, modern, tap, lyrical, modern, ballroom, and hip-hop. Students concentrate on specific performance skills using a range of dance techniques and engage in an in-depth study of the process of creative expression through choreography. When creating their own dance combinations, they identify and use the musical rhythms and dance genres studied. Students develop original choreography projects and have opportunities to perform throughout the year.

Strings (Sixth, Seventh, and Eighth Grades)

Violinists, violists, and cellists study traditional classical music for string instruments by Vivaldi, Bach, and other classical composers. They further their skills by playing various genres of music arranged for strings ensembles that span from traditional to contemporary. For an enhanced performance experience, the sixth, seventh, and eighth grades combine forces as one Strings Ensemble for performances. The three grade levels rehearse together once per cycle during FLEX time.

Film Production (Seventh and Eighth Grades)

Students work collaboratively to make films by writing screenplays, creating storyboards, composing camera angles, animating with different mediums, acting with continuity, learning how to film scenes, and polishing their final videos in the editing process. They practice these skills using iMovie; Adobe Premiere Pro; and iStopMotion, an iPad app for creating stop-motion films. Students also study professional films and develop an understanding of how to communicate a vision to an audience.

Studio Art (Seventh and Eighth Grades)

This course goes beyond the general art curriculum to develop students' drawing, sculpture, installation, and painting skills through a variety of media and techniques. Students explore great artists and significant movements of the past and collaborate to create works based upon these influences. The artists studied include: Albrecht Dürer, Claude Monet, Pablo Picasso, M.C. Escher, Andy Warhol, Jeff Koons, and Kara Walker. Students must submit an art portfolio with three to five pieces of work to be considered for participation in this class.

HEALTH, WELLNESS, AND PHYSICAL EDUCATION

To help students make healthy lifestyle choices, the health curriculum seeks to support Middle School students in analyzing situations and exploring the concept of living a balanced life. Students receive accurate, developmentally appropriate information under the umbrella of wellness and participate in carefully guided discussions. Students learn skills that empower them to better understand identity, including how to evaluate different aspects of daily life and relationships, deal with adversity, and manage stress.

PHYSICAL EDUCATION

Physical education is a fundamental and crucial part of the Middle School experience. Classes are intentionally designed to be less competitive and more experience-based, fitness-based, with an emphasis on learning new skills through traditional and non-traditional units. This model helps students to set goals at their own pace without constantly comparing themselves to others.

Our curriculum builds in intensity and complexity from fourth grade to eighth grade. Each year students are asked to use a set of skills learned the previous year to help them understand a new sport or concept to complete a personal best. A strong focus on sportsmanship and growth mindset helps students to maintain the approach of being a lifelong learner in physical movements, which impacts the approach to lifetime fitness. Students entering the Middle School start with physical units that connect with the concepts of a capstone project done in third grade. This allows them to use their prior knowledge of community and teamwork right away, while also being physically active. Team building games, fitness drumming, skateboarding, and brain games are just a few highlights for new students. Returning students learn games from cultures around the world like Omnikin ball and begin to explore new ways to enhance their fitness with units like parkour, spin class, hand-eye coordination, yard games, net ball, golf, and track & field. Students do experience more traditional units like basketball, baseball and tennis, and each year students are asked to participate in some of the same activities at a higher level. All units offer connections to concepts learned in wellness classes, such as decision making, dealing with adversity, and setting goals. Physical education at the Middle School culminates with classes designed in preparation for the next level where they will primarily focus on concepts of physical fitness, creating workouts in a weight room, recovery, and maintaining physical routines and habits.

FOURTH GRADE

Wellness

Fourth-grade wellness class provides a foundation for personal growth and education about the skills needed to maintain and achieve a healthy lifestyle. Our holistic approach emphasizes concepts that help students make connections between who they are, what they feel, and the world around them. Wellness is a full year class that builds from our seven pizza slices of wellness. Mental awareness, emotional wellness, social wellness, physical wellness, intellectual wellness, spiritual wellness, and environmental wellness. Each class is designed to educate students about the skills, healthy habits, and strategies that can be used to navigate through and build self-awareness. Students are given an unlined notebook to express their thoughts, ask questions, take notes, and become a guide during the year. Students will interact with a variety of resources like books, games, mindful walks, and music to solidify their experience with each slice. By the end of the year, students should have a lens on what wellness looks like to them and how to process future health and wellness lessons and topics.

FIFTH GRADE HEALTH AND WELLNESS

Growth, Change, and Identity

Health and wellness class focuses on identity and self-awareness, as well as the physical, social, and emotional stages of development during puberty. Students build upon vocabulary and concepts that were taught in fourth grade. They work on implementing strategies and techniques to strengthen their self-confidence and self-worth, allowing them to be appropriately aware of puberty and physical changes,

uphold personal values, and handle peer pressure. This course relies on a strong partnership between home and school. Teachers send home an outline at the beginning of the course, and parents are encouraged to discuss class topics with their children at home. Special games, projects, and discussions of current events further strengthen how the students see themselves and how they relate to the world around them.

SIXTH GRADE HEALTH AND WELLNESS

Decision Making, Concepts of Self, Social Media, and Emotional Literacy

Through the different layers of wellness, students learn how stress, positive and negative mindsets, and changing emotions affect their well-being. They also learn strategies and concepts that can help them with self-regulation and with applying these techniques to personal experiences. Students begin to learn about creating boundaries and using language that can help promote advocacy and empowerment. At this level, students begin to understand what "everyday consent" is as it relates to personal items, personal space, and bullying. They also spend time exploring some of the different concepts of self as they learn vocabulary and review the importance of having strong self-esteem, self-efficacy, and self-care, to name a few. Sixth grade also introduces an online platform called "Win@social" where students make connections between the world of social media and the influences it has on the concepts taught throughout the year. WinSocial is provided by the social institute and offers automated content delivery in language and content that is relevant and recognizable to the middle school students in today's culture.

SEVENTH GRADE HEALTH AND WELLNESS

Stress, Problem Solving, Factors That Influence Risky Behavior, and Substances

Students build upon the lessons and skills taught in the previous year to help them have a deeper understanding of where stress comes from, how it builds and how to stop the "domino effect" of events. Students begin to understand the roots of stress and how to maintain low levels of stress by redirecting negative stress. They learn techniques and concepts that can have an impact immediately. Seventh graders also begin the complex thinking associated with making their wellness wheel serve them in problem solving. By now, students know what the different dimensions of the wellness wheel are, and now they will begin to see how to problem-solve in those same dimensions. Once again, students will interact with the "Win@social" platform to aid in their understanding of these concepts in a digital age. Students also begin to learn about factors that contribute to risky behavior and how they can implement strategies to stay in control. Much of the focus is designed to examine some of the hurdles of adolescent behavior and thinking while also helping students seek alternative solutions to unhealthy situations. Students discuss the nature of addiction and the consequences of substance abuse. They define the term "drug" and learn about the physical, psychological, and social effects of drug use. Students discuss and examine other important issues, including decision-making, peer pressure, and how to self advocate and ask for help.

EIGHTH GRADE HEALTH AND WELLNESS

Creating Healthy Relationships in Dating, Human Reproduction and Contraception, & Gender and Sexuality

Students in eighth grade return to topics about the physical, social, and emotional changes that occur during puberty from the perspective of an older student about to enter high school. Students also engage in discussions and research around dating, and what are healthy relationships vs. unhealthy relationships, consent, and gender. As students prepare to go into high school we revisit what identity means and how it is expressed in an affirming atmosphere. Students will also focus on understanding the anatomy and physiology of the reproductive systems, fetal development and birth, sexually transmitted diseases, and abstinence and other contraceptives. Through ongoing, small-group discussions, students gain insight into and develop an understanding of the human body, the many unique qualities it has and how to protect it.

MIDDLE SCHOOL FACULTY

Nigel D. Furlonge

Head of School B.A., University of Pennsylvania M.A., Villanova University M.Ed., Teachers College, Columbia University

Stephen Valentine

Associate Head of School B.A., Boston College M.A., University of Virginia

Karen Newman

Assistant Head of School for Curriculum and Professional Development B.A., Swarthmore College M.A., University of Chicago

Christopher McLaughlin

Director of STEM+ Programming B.F.A., University of Southern Mississippi M.A.T., Montclair State University

Dr. Carlaina Bell

Head of Middle School B.A., University of Virginia M.Ed., Harvard University Ed.D., Seton Hall University

Catherine Gaynor

Assistant Head of Middle School B.S., Union College M.Ed., University of Massachusetts

David Allen

Science A.B., Cornell University M.Ed., Harvard University

CherylAnne Amendola

Social Studies Department Chair B.A., Montclair State University M.A., Columbia University M.A., Pace University / Gilder Lehrman Institute

Chae Anderson

Fine and Performing Arts (Vocal Music) B.A., Westminster Choir College, Rider University M.M., Mason Gross School of Arts, Rutgers University

Meg Arcadia

English B.A., Sweet Briar College M.A.T., Manhattanville College

Lauren Arcis

World Language B.A., University of Havana M.A., University of Connecticut

Dagny Baker

Learning Specialist B.A., Boston University M.S.Ed., Bank Street College

Dominique Benson

World Language B.A., M.A., University of Geneva, Switzerland

Sarah Bradley '12

Health, Wellness, and Physical Education B.A., M.A., Montclair State University

Bill Bronson

Social Studies B.A., Hunter College M.A., Bank Street College of Education

Alison Carrascosa

Mathematics B.A., Indiana University M.A.T., Montclair State University

Lindsey Cerracchio

Fourth Grade B.A., Rutgers University M.Ed., Bank Street College of Education

Jacqy Chung

Instructional Technologist B.A.Sc., Ewha Womans University M.A., University of Waterloo M.Ed., Harvard Graduate School of Education

Scott Coronis

Health, Wellness, and Physical Education B.A., Dartmouth College

Elizabeth Coyle

Mathematics B.A., Barnard College M.A., Johns Hopkins University

Laura Demaria

Director of Academic Support, Office of Student Support / Middle School Learning Specialist B.A., The College of Wooster M.S.Ed., City College of New York M.S.Ed., University of Pennsylvania

Nicholas DeVenezia

Mathematics B.S., Lehigh University

Monica Elmore

Fine and Performing Arts Department Chair (Dance) B.F.A., Temple University M.A., New York University Ed.D., Abilene Christian University

Susan Foley

World Language / Middle School Global Experience Coordinator B.A., Rutgers College

Eric Fox

Mathematics B.S., Washington University

Joelle Francht

Fine and Performing Arts (Visual Art) B.A., University of Richmond M.F.A., Pennsylvania State University

Nathan Gardner

Social Studies / Seventh Grade Dean B.A., Kenyon College

Peter Gaynor

Coordinator of Restorative Practices / Social Studies / English B.A., Union College M.Ed., University of Massachusetts

Diane Giangreco

Fine and Performing Arts (Technical Theatre) / Technical Theatre Director / Sixth Grade Dean B.A., Georgetown University

Deborah Gordon

Mathematics Department Chair B.S., Brandeis University M.A., Teachers College, Columbia University

Chelsea Goss

Social Studies / Health, Wellness, and Physical Education B.A., M.A., Rutgers University

Lisa Gunn-Becker

Fine and Performing Arts (Theatre) B.A., California State University Fresno M.F.A., Temple University

Elizabeth Coyle

Mathematics B.A., Barnard College M.A., Johns Hopkins University

Dimitri Hadjipetkov

Fine and Performing Arts (Strings) B.A., Montclair State University M.A., New York University

Susan Hansen

Science B.S., Eastern Michigan University M.A., Teachers College, Columbia University

MIDDLE SCHOOL FACULTY

Marshall Hatcher

Dean of Students / English B.A., University of Mississippi M.A., Teachers College, Columbia University

Shanie Israel

Dean of Community Life B.S., M.Ed., Ohio University

Daniella Kessler

Director of Counseling, Office of Student Support / Counselor / Health, Wellness, and Physical Education B.A., M.A., University of Nevada, Las Vegas

Marsha Kleinman

English Department Chair B.A., SUNY Binghamton M.A., Teachers College, Columbia University

Amanda Langan

World Language / Middle School Community Engagement Coordinator B.A., SUNY Geneseo

Kara Leftwich

Learning Specialist B.A.S.W., University of New Hampshire MS.Ed., Hunter College

Nathan Lutz

World Language B.A., Louisiana State University Diplôme, La Sorbonne M.A., Rutgers University M.Ed., SUNY Empire State College

Beau Macksoud

World Language B.A., Bard College M.A., Middlebury College M.Ed., Northeastern University

Jennifer Maietto

Science

B.A., University of Central Florida

Justine Martinez

Science

B.A., M.Ed., Drew University

Carolyn Metz

Counselor / Health, Wellness, and Physical Education B.S., New York University M.S., St. John's University

Ruth Miller

English B.A., Trinity College M.A., M.Litt., Middlebury College

Sunnie Minn

Science B.S., M.S., SUNY Stony Brook

Paul Murphy

Fine and Performing Arts Department (Concert Band) B.M., St. Olaf College M.M., Yale School of Music

Meghan Murray

Librarian B.A., William Paterson University M.L.I.S., Drexel University

Huma Niazi

Science B.S., B.Ed, Jamia University M.Ed., University of Delhi

Spencer Pyke

Health, Wellness, and Physical Education B.A., Lynchburg College M.S., Montclair State University

Yesenia Ravelo-Rodriguez

World Language Department Chair B.A., The College of New Jersey M.A., Marygrove College

Tom Ruddy

Librarian B.A., M.L.I.S., Rutgers University

Kyle Schrader

Middle School Registrar / Fine and Performing Arts (Media Arts) B.A., Gettysburg College M.A., Villanova University

Leon Shade '98

Health, Wellness, and Physical Education Department Chair B.A., Rutgers University

Roshni Shah

Fourth Grade / Fourth Grade Dean B.S., M.S., Drexel University Ed.D., Northeastern University

Sheila Smith

Fourth Grade B.A., Roanoke College

Donna Starke

Mathematics Specialist / Mathematics B.S., The College of New Jersey M.Ed., Rutgers University

Amy Mai Tierney

Social Studies B.A., Swarthmore College M.A.T., Teachers College, Columbia University

Carlie Till '13

English / Fifth Grade Dean B.A., M.A.T., Monmouth University

Nicholas Tricarico

English / Eighth Grade Dean B.A., Rutgers University M.A., New Jersey City University

Vivian Tsai

Mathematics B.A., M.Ed., Rutgers University

Mojda Walker

Fourth Grade B.A., Alfred University M.S., Pace University

Daniel Weller '01

Science Department Chair B.A., New York University M.A.T., Montclair State University Ed.S., Seton Hall University

Denis Wong

English
B.A., Rutgers University
M.S., Long Island University
M.F.A., The City University of Hong
Kong

Fangzhou Zhang

World Language B.A., Northeast Normal University M.A., Seton Hall University

