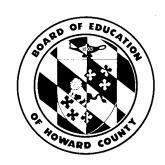


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Dear Students and Parents/Guardians:

According to many research studies, the middle school years are a critical time in your child's life and will set the course for his or her future. Middle school is the time to strengthen study habits, identify interests, and build a foundation for educational success.

Our goal is for every student to graduate from high school prepared to be successful in post-secondary experiences. Most college graduates earn more money during their working years than those who have a high school diploma. Businesses want employees who know how to think and solve problems.

As part of our commitment to provide a customized world-class educational program for each student, the Howard County Public School System has instituted a Middle School Program of Studies designed to be rigorous and relevant to students' lives to prepare them for high school, college, and careers.

This catalog was created to help you and your child learn about each course your child will take next year. The courses are organized by grade and subject and identified by course numbers, which you will find on your child's Middle School Course Registration Form. After reviewing this guide, if you still have questions, please contact your child's School Counselor.

Sincerely,

Renee A. Foose, Ed.D. Superintendent of Schools

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Coordinator

Advanced Placement and Social Studies

Sandra Suber

Acting Coordinator

School Counseling and Related Services

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Coordinator

Science

Jon Wray

Instructional Facilitator

Mathematics

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Middle School Program of Studies

Middle School Program of Studies

The Board of Education approved a seven-period schedule across all middle schools. The Maryland College and Career-Ready Standards establish a set of shared goals and high expectations for what students should understand and be able to do in grades Pre-K–12. The goal is to ensure all students will be well prepared for success in college and the workplace.

All middle school students will take annually:

- English Language Arts
- Social Studies
- Science
- Mathematics

English Language Arts, Social Studies, Science, and Mathematics offer a G/T option for instruction. Mathematics has an above-grade level course in addition to the G/T options.

GRADE 6	GRADE 7	GRADE 8
English Language Arts 6 English Language Arts 6 G/T	English Language Arts 7 English Language Arts 7 G/T	English Language Arts 8 English Language Arts 8 G/T
Mathematics 6 Mathematics 7 Pre-Algebra G/T	Mathematics 7 Mathematics 8 Algebra I G/T	Mathematics 8 Algebra I Geometry G/T
Earth Science 6 Earth Science 6 G/T	Life Science 7 Life Science 7 G/T	Physical Science 8 Physical Science 8 G/T
Geography and World Cultures 6 Geography and World Cultures 6 G/T	Geography and World Cultures 7 Geography and World Cultures 7 G/T	United States History 8 United States History 8 G/T
Health 6	Health 7	Health 8
Physical Education 6	Physical Education 7	Physical Education 8
Related Arts: • Art¹ • Family and Consumer Science • General Music¹ • Technology Education • World Languages² • MS GT Research³ • Innovation and Inquiry Module: Expanding and Exploring Career Options⁴	Related Arts: • Art¹ • Family and Consumer Science⁵ • General Music¹ • Technology Education • World Languages	Related Arts: • Art¹ • Family and Consumer Science⁵ • General Music¹ • Technology Education • World Languages
Performing Arts¹ • Band • Orchestra • Chorus	Performing Arts ¹ • Band • Orchestra • Chorus	Performing Arts¹ • Band • Orchestra • Chorus

¹ All students must take at least one of these courses each year to fulfill the COMAR fine arts requirement.

The following middle schools offer WL programs beginning in the 6th grade: Bonnie Branch, Lake Elkhorn, Oakland Mills, Patapsco, Mount View, Murray Hill, Thomas Viaduct, and Wilde Lake. All middle schools offer French and Spanish in grades 7-8. Chinese is offered at Mount View and Murray Hill Middle Schools.

³ Students must be in English Language Arts 6 G/T and Pre-Algebra G/T based upon the recommendation of the G/T Placement Committee, to enroll in this course.

⁴ This course fulfills the COMAR requirement for careers and provides development of reading skills.

⁵ This course fulfills the COMAR financial literacy requirement.

Middle School Program of Studies



Students may also take:

- Additional Related Arts
 - Art
 - General Music
 - Family and Consumer Science
 - Technology Education
- GT Research or Seminars/Interventions
- Innovation and Inquiry Reading Modules

All students in grade 6 are enrolled in a Career module.

Students must also take Family and Consumer Science in either 7th or 8th grade or receive the financial literacy information embedded within another course.

Students must also complete at least one Innovation and Inquiry Reading Module related to career readiness or receive this information through another course.

Note: Information in this section summarizes HCPSS policies. Although deemed accurate, this information does NOT supersede policy. See the Board of Education (BOE) section of the HCPSS website (www.hcpss.org) for access to full copies of Board of Education policies.

Attendance

By state law, children must attend school from ages 5 to 17. The Maryland State Department of Education has defined full and partial day attendance as follows:

- A student is counted present for a full day if the student is in attendance four hours or more of the school day.
- A student is counted present for a half day if the student is in attendance for at least two hours of the school day, but less than four hours.
- A student scheduled for less than a full day is to be counted present based on the amount of time he/she is scheduled.

A note from the parent must be submitted to the school within two school days of the student's return, indicating the date and reason for tardiness or absence from a regular school session. A doctor's certificate is required in cases of long-term absence due to illness. A note should also be submitted to request early dismissal or exclusion from activities (e.g., physical education). Chronic absences are referred to the Department of Special Education and Student Services.

Regular daily attendance is vital to the continuity of classroom instruction and participation in school activities. Therefore, students are required to be in school or to be attending a school activity each day school is in session. In recognition that situations do arise that necessitate absence from school, the Board of Education allows students to be lawfully absent for a death in the family, illness, a court summons, hazardous weather as determined by the Superintendent, work release, religious obligation, declared state emergencies, suspension, or for other emergencies or sets of circumstances, which in the judgment of the Superintendent or designee, constitute a good and sufficient cause for absence.

Homework Guidelines

To ensure that each student meets or exceeds rigorous performance and achievement standards, HCPSS must assist students in maintaining and extending their learning. The appropriate design, use and evaluation of regular homework assignments are all integral pieces needed to achieve that goal.

Throughout all grades, teachers will provide homework. Homework can help students reinforce previously taught skills, explore and extend knowledge, prepare for future lessons, challenge and inspire independent learning, and explore new talents and skills. It must be useful, responsive, engaging, varied and challenging. Homework also enables parents to take an active role in their child's education by monitoring academic progress and reinforcing lessons at home. All schools develop and implement a set of comprehensive homework guidelines based upon the following countywide criteria.

All Grades

- Individual schools must provide information to parents about the school's, team's and/or teacher's homework
 guidelines, the student's homework responsibilities, and how parents can help monitor, assist with and discuss
 homework. Each school will communicate this information clearly to parents at the beginning of every school year.
- Teachers will review homework in a timely manner.
- Homework should be planned so that students see the relationship of their homework to class work, see meaning in their assignments, have a clear understanding of the procedures and due dates, and understand how their homework is evaluated.
- Each school will develop clear guidelines for dealing with late or missing homework, as well as determine the percentage of grades that can be derived from homework assignments.
- Homework will be differentiated to meet the needs of individual students and curricula.
- Homework may be reviewed or evaluated as part of class activities. However, class time should not be used for the completion of homework.
- Homework patterns should change to help prepare students for the transition to the types and amount of homework they will receive as they move from elementary school to middle school to high school.
- Because all students may not have ready access to electronic communications outside their school building, no assignments are to be given to students electronically when schools are not in session, including during emergency closings. In addition, students are not to be required to submit previously assigned work electronically if the due dates occur during emergency closings.

Homework Guidelines continued

Grades 6-8

- Five to 10 hours of homework a week are suggested for middle school students. Homework assignments may reinforce previously taught skills, prepare students for future lessons, extend learning, promote creativity and/or be a reflection on the student's day at school.
- County and state mandated testing are legitimate reasons for modifying homework assignments.
- Middle school students have more than one teacher. Therefore, teams of teachers coordinate activities and projects so that reasonable amounts of homework are given across subjects each night, and so that opportunities for integrating subjects are maximized.

Grading

The grading system used to reflect student achievement for Pre-K-8 includes letter grades, effort codes/comments, and instructional levels.

A. Grades reported on interim/progress reports and on the report card at the end of each marking period in Pre-K–8 are derived from a compilation of assessments from that entire marking period up to the point of the progress report or report card.

Grades in 3-8 are the following:

A (90-100%) - Outstanding level

B (80-89%) - High level

C (70-79%) - Satisfactory level

D (60-69%) - Low level

E (59% or lower) - Failure

Percent scores are rounded to the nearest whole number. Anything below .5 rounds down, and anything .5 and above rounds up.

Ex.1: 89.49% rounds to 89. Ex. 2: 89.50% rounds to 90.

- B. Student grades may not be subject to a percentage grade reduction for lateness to class, absence, behavior or disciplinary action. Such actions could impact the final grade, however, in an indirect manner because of missed work and incomplete assignments.
- C. In computing numerical averages from letter grades, the following equivalents will be used:

$$A = 4$$
, $B = 3$, $C = 2$, $D = 1$, $E = 0$

Tips for Success

- Encourage your child to challenge himself or herself by working up to his or her ability in appropriate classes.
- Recognize study habits are an important part of academic achievement. Your child will need to learn to organize his or her materials, write down homework assignments, and complete homework assignments independently.
- Encourage your child to take advantage of opportunities to explore interests. Well-rounded students are the happiest students.
- Attend parent conferences and stay involved in your child's academic success. Do not hesitate to contact your child's teachers or school counselor if you have questions or concerns.
- Help your child set short- and long-term goals. Praise your child for successes and provide support when needed.
- Be patient. Adolescence is a time of great growth and change.

Internet Safety and Digital Responsibility

Technology use, internet safety and digital citizenship are the responsibilities of students, parents, and HCPSS staff. HCPSS is committed to teaching all students responsible behaviors and educating them about potential consequences of misuse. Policy 8080: Responsible Use of Technology and Social Media describes the guidelines.

Personal Communication Device Guidelines

- 1. Students must comply with class and school rules and all relevant HCPSS Board Policies.
- 2. Administration, faculty and staff may request at any time that students turn off and put away technology devices. Failure to do so may result in disciplinary action and possible revocation of privileges.
- 3. Individuals assume full responsibility for their non-HCPSS owned technology devices. This includes the device's safety, security and maintenance.
- 4. Schools may designate approved personal communication device zones/times on school grounds. However, personal communication devices may not be used in locker rooms or bathrooms at any time.
- 5. Students must obtain consent from staff and participants before taking, uploading or sharing photos, recording audio, or capturing video during the school day.
- 6. Any disruption to class or other educational activity may result in disciplinary action.
- 7. Privileges for personal communication devices in middle school are: Middle school students are permitted to carry personal communication devices with them during the school day. They must be turned off or in silent mode at all times. These devices may not disrupt instructional time and should be put away (in a pocket, backpack, notebook or locker). Instructional time is defined as from the sound of the class late bell to the sound of the class dismissal bell. Students may use their personal communication device before or after school hours, during lunch and hallway/transition times. Due to the size of middle school hallways, middle school principals may choose to limit the use of personal communication devices during hallway transitions in an effort to maintain a safe environment.

What you Should Know About High School

- While sixth graders are not expected to know what courses they want to take in high school, it is important
 for students and parents to have a general understanding of the course offerings. A full list of high school
 courses is available at www.hcpss.org under Academics.
- Students must pass PARCC Assessments in Algebra I and English 10 and the Maryland High School
 Assessments in Science and Government. If Algebra I is taken in middle school, another mathematics
 assessment must be taken in high school.
- The mathematics courses taken in middle school determine the mathematics placement in high school.
- High school grade point averages are reported when students apply to college. It is important to find the right balance between course rigor and grades.
- Students must complete 75 hours of service learning. Most HCPSS students complete this requirement in middle school through a curricular project completed during each of the three years.

High School Graduation Requirements

Credit Requirements: Students must earn a minimum of 21 credits to graduate. Credits should be earned in the following areas:

CORE REQUIREMENTS		01	THER REQUIREMENTS
Subject Area	Current Specific Credit Requirements	Subject Area	Current Specific Credit Requirements
4 credits, including: • 1 credit in English 9 • 1 credit in English 10 • 1 credit in English 11 • 1 credit in English 12	• 1 credit in English 9	Fine Arts	1 credit
	• 1 credit in English 11	Physical Education	1/2 credit, including: Lifetime Fitness
Mathematics	3 credits*, including: • 1 credit in Algebra I • 1 credit in Geometry	Health	1/2 credit, including: Health Education or Current Health Issues
3 credits, including: • 1 credit in Biology • 2 additional credits including laboratory experience, in any or all of the following areas: » Earth Science » Environmental Science » Life Science » Physical Science	Technology Education	1 credit	
	Program Choice	2 credits in World Language OR 2 credits in American Sign Language** OR 2 credits in an approved Advanced Technology Program OR 4 or 5 credits in a Career Academy	
3 credits, including:			(State-approved Career and Technology Education Completer Program)
	Electives	1-3 credits to include courses beyond requirements.	

^{*} All students must graduate with a credit with instruction in algebra and one credit with instruction in geometry. For the graduating class of 2018 and later, students must be enrolled in a mathematics course in each year of high school (for a maximum of four years unless a mathematics course is needed to meet graduation requirements in additional years).

^{**} Students must complete both ASL I and II in high school to meet the graduation requirement.

Student Service Learning

Student Service Requirements*

To graduate from high school in Maryland, all students shall complete 75 hours of student service learning (SSL). Since the accumulation of SSL hours may begin in middle school, most students in Howard County will complete the requirement by the end of grade 8.

Howard County middle schools infuse a minimum of 25 hours of SSL within curriculum experiences in grades 6, 7, and 8. This model ensures Howard County students have equitable access to meet the SSL graduation requirement before they enter high school. In this model, schools select and facilitate SSL experiences from a variety of centrally-approved projects, and students will have experiences in the planning, preparation, action, and reflection phases of service as a part of curriculum.

Students enrolled in HCPSS middle schools will earn credit as follows:

Grade	Hours earned
6	25
7	25
8	25

Students who do not attend middle school in HCPSS for each of grades 6, 7, and 8 may not have earned the full 75 hours of SSL upon entering high school. In these cases, students may fulfill the SSL graduation requirement through successful completion of courses designated with the SSL distinction and listed in the *Catalog of Approved High School Courses*. These courses are designed to give students practical opportunities to demonstrate leadership skills and to meet the service requirement in various settings.

Credit for High School Courses Taken in Middle School

High school courses offered at the middle school level are eligible for high school credit. Beginning with courses completed in the 2015–16 school year:

- 1. The student's passed course will count toward the 21 credits for graduation requirement.
- 2. The student's course grade will be recorded on the high school transcript.
- 3. The student's grade will not be calculated into the high school grade point average.
- 4. For high school world language courses, one credit will be awarded at the completion of a course in grade 8.

The following courses taken in Grades 6, 7, or 8 will be awarded one high school credit upon successful completion: MA-401-1 Algebra I, MA-403-1 Algebra I G/T, MA-433-1 Geometry G/T, WL-300-1 Chinese, WL-310-1 French, and WL-320-1 Spanish.

Course Description Diagram

Course Number - LA-101-1 Course Title - English Language LA-101-1 Arts 6 **English Language Arts 6** Grade 6 ← **Grade Eligible for Course -** 6 English 6 students learn how to make purposeful and deliberate choices when responding to diverse media **Course Description** and formats. Students read grade-appropriate complex literary and informational texts while further developing the Describes the ability to cite textual evidence to support analyses when content of a class. responding to text in written and spoken modes. Students analyze both the structure and content of complex, thematic-based texts.



English

All middle school students take English in grades 6-8. Students in grades 6, 7, and 8 learn how to make purposeful and deliberate choices when responding to diverse media and formats. Students read grade-appropriate complex literary and informational texts while further developing the ability to cite textual evidence to support analyses when responding to text in written and spoken modes. Students analyze both the structure and content of complex, grade-appropriate text. English instruction is an integral part of the implementation of the Maryland College and Career-Ready Standards and teaches the foundational literacy skills that are applied in all content areas.

LA-101-1 English Language Arts 6 Grade 6

English 6 students learn how to make purposeful and deliberate choices when responding to diverse media and formats. Students read grade-appropriate complex literary and informational texts while further developing the ability to cite textual evidence to support analyses when responding to text in written and spoken modes. Students analyze both the structure and content of complex, thematic-based texts.

LA-102-1 English Language Arts 6 G/T Grade 6

This Gifted and Talented English course requires students to address the expectations of the grade 6 English Language Arts Curriculum, as well as more advanced critical reading, writing, and thinking demands. The compacted curriculum collapses previously mastered grade-level skills in order for students to engage with more advanced text analysis and student-directed inquiry.

LA-201-1 English Language Arts 7 Grade 7

Students in this course read grade-appropriate complex literary and informational texts while further developing the ability to cite textual evidence to support analyses when responding to text in written and spoken modes. Students analyze both the structure and content of complex, thematic-based texts. English 7 students expand their understanding of argument by addressing counterclaims in written and spoken responses.

LA-202-1 English Language Arts 7 G/T Grade 7

This Gifted and Talented English course requires students to address the expectations of the grade 7 English Language Arts Curriculum, as well as more advanced critical reading, writing, and thinking demands. The compacted curriculum collapses previously mastered grade-level skills in order for students to engage with more advanced text analysis and student-directed inquiry.

LA-301-1 English Language Arts 8 Grade 8

English 8 students learn how to make purposeful and deliberate choices when responding to diverse media and formats. Students proficiently read grade-appropriate complex literary and informational texts while further developing the ability to cite textual evidence to support analyses when responding to text in written and spoken modes. Students analyze both the structure and content of complex, theme-based texts.

LA-302-1 English Language Arts 8 G/T Grade 8

This Gifted and Talented English course requires students to address the expectations of the grade 8 English Language Arts Curriculum, as well as more advanced critical reading, writing, and thinking demands. The compacted curriculum collapses previously mastered grade-level skills in order for students to engage with more advanced text analysis and student-directed inquiry.

ESOL

Students who qualify for ESOL services in middle school receive English language development instruction from an ESOL teacher and enroll in the grade-appropriate English language development course.

ESOL teachers in middle school, deliver language instruction by co-teaching during content instruction, and/or providing direct language instruction in an ESOL Seminar, and through co-planning and consultative service with classroom teachers.

EL-100-1

Grade 6

EL-200-1

Grade 7

EL-300-1

Grade 8

ESOL English Language Development 6-8

This course provides academic English language instruction that helps ELLs access the concepts and objectives addressed within the course. The five WIDA English Language Development Standards are addressed in this course which include: Social and Instructional Language, Language of Language Arts, Language of Mathematics, Language of Science, and Language of Social Studies. Students learn academic vocabulary usage, language forms and conventions, and linguistic complexity in order to develop proficiency with the overarching communicative purposes that are prevalent in school, such as discussing, recounting, explaining, and arguing.



Family and Consumer Science

Family and Consumer Sciences is an interdisciplinary study providing students hands-on activities to develop the technical, critical thinking, problem solving, decision-making, and interpersonal skills that will empower them to manage the challenges of living and working in a diverse society.

CT-110-8

CT-110-9

Grade 6

Family and Consumer Science (FACS)

Students develop knowledge and skills they need now as teenagers and will use the rest of their lives. FACS projects and activities encourage students to develop the critical thinking, problem-solving, and decision-making skills needed to be contributing members of their families and communities. Through food labs, students will enjoy using basic, healthy ingredients to plan and prepare tasty and nutritious meals and snacks. Through studying and applying financial management principles, students determine how to earn, save, invest, and spend money wisely.

CT-210-8 CT-210-9 Grade 7

Family and Consumer Science (FACS)

The seventh grade curriculum prepares students to make good decisions as teenagers, as members of families, and as part of their school and community. Through financial literacy instruction, students will examine how spending decisions may impact career choices such as saving for college and getting a job. Students will apply financial management principles, food preparation skills, and knowledge of nutrition to make healthier food choices at home, at school, and when dining out. Hands-on food labs will emphasize preparing and serving fresh fruits and vegetables as well as lean proteins.

CT-310-8 CT-310-9 Grade 8

Family and Consumer Science (FACS)

Eighth graders enrolled in FACS will have the opportunity to apply their knowledge of budgeting, saving, and investing through Finance Park, an online simulation of the real-life consequences of financial and career decisions. As part of being college and career ready, students will relate careers, education, and income so they can set personal, academic, and career goals. In addition, through the study of international foods and food labs where students prepare dishes from countries across the world, students will discover how culture impacts food choice, food staples, and food customs. Hands-on food labs will emphasize healthy dishes from world cuisines.



Fine Arts

Art

The visual arts program is designed to foster inquiry and innovation, creative problem solving, and communication, as well as to develop studio skills in the visual arts at the highest possible level. Objectives relating to: idea generation, design and manipulation of two- and three-dimensional space, the exploration of personal meaning, attention to quality, studio behaviors, and the analysis of art, empower students to make sense of an increasingly visual world both through making their own art and responding to the work of others.

VA-100-8 VA-100-9 Art Grade 6

In this course students continue to develop their observational skills in order to inform their imagination and memory with a goal toward refining personal solutions to given visual arts problems. As well as presenting challenging and engaging open ended tasks, the problems presented are designed to include a variety of studio practices and media. Through the critical analysis and making of visual images students will make personal discoveries, which reflect their own experiences and ideas, their relation to their peers and family, and their place in the world.

VA-200-8 VA-200-9 Art Grade 7

In this course students continue to develop their observational skills in order to inform their imagination and memory with a goal toward refining personal

solutions to given visual arts problems. As well as presenting challenging and engaging open ended tasks, the problems presented are designed to include a variety of studio practices and media. Through the critical analysis and making of visual images, students will make personal discoveries, which reflect their own experiences and ideas, their relation to their peers and family, and their place in the world.

VA-300-8 CT-300-9 Art Grade 8

This course emphasizes the development of idea generation strategies, as well as continues the focus on observational skills, and the application of compositional strategies in preparation for the high school art program. Art problems are designed to address sequential processes; requiring students to solve problems in a creative and personally meaningful way. Through the critical analysis and creation of visual images students refine their aesthetic interpretation and judgment of their own works of art and those of others.



Music

Music

Each course in the music program is designed to develop skills, understanding, and musicality at the highest possible level. Inherent in the musical experience is a simultaneous combination of visual, auditory, and kinesthetic learning, as well as the emotional connection to the art form. Additionally, the process of musical study enhances the development of creative and critical thinking skills, affords opportunity to build individual and group discipline, and increases achievement through both individual and collective effort.

Students enrolling in the performance-based courses, such as those in band, chorus, and orchestra, should be aware that attendance at rehearsals, sectional practices, and performances is an integral part of the course. Every effort is made by directors to arrange sectional and pre-concert rehearsals and to schedule concerts within the context of the school's master schedule.

All skills developed in the ensemble classes are demonstrated and assessed at culminating performances throughout the school year including, but not limited to, school concerts, community performances and the county-wide adjudications and assessments.

Ability-based Performing Arts Ensembles

Band	Chorus	Orchestra
Concert Band Symphonic Band Wind Ensemble	Chorus Concert Chorus Chamber Chorus	String Ensemble String Orchestra Chamber Orchestra

MU-100-1 Concert Band MU-200-1 Symphonic Band MU-300-1 Wind Ensemble Grades 6, 7, 8

Students perform music representing various styles and genres with an emphasis on developing ensemble skills. Additionally, students meet in small groups to receive instruction to improve their individual skills. After school and evening rehearsals and activities, such as concerts and countywide adjudications are integral to the course and may not exceed 20 per school year. Grades may reflect such participation.

MU-110-1 Chorus MU-210-1 Concert Chorus MU-310-1 Chamber Chorus Grades 6, 7, 8

Students perform music representing various styles and genres with an emphasis on developing ensemble skills. Additionally, students may receive small group instruction to improve their individual skills. After school and evening rehearsals and activities, such as concerts and countywide adjudications are integral to the course and may not exceed 20 per school year. Grades may reflect such participation.

MU-130-8 Grade 6 MU-130-9 Grade 6

MU-230-8 Grade 7

MU-230-9 Grade 7

MU-330-8 Grade 8

MU-330-9 Grade 8

General Music

Students experience music through performance in four strands of study - keyboard, guitar, world music drumming, and music technology. Each of the strands incorporates the opportunity for students to respond to a variety of musical styles and genres from throughout the world.

MU-120-1 String Ensemble

MU-220-1 String Orchestra

MU-320-1 Chamber Orchestra

Grades 6, 7, 8

Students perform music representing various styles and genres with an emphasis on developing ensemble skills. Additionally, students will meet in small groups to receive instruction to improve their individual skills. After school and evening rehearsals and activities, such as concerts and countywide adjudications are integral to the course and may not exceed 20 per school year. Grades may reflect such participation.

Gifted and Talented Education

The Gifted and Talented Education Program supports Goal 1 of *Vision 2018: Fulfilling the Promise of Preparation* by providing comprehensive programming in Grades K–12 with a focus on talent development, enabling students to launch their own talent trajectories as they discover and build upon their individual strengths and interests. The middle school Gifted and Talented (G/T) Education Program promotes student engagement through enrichment, rigorous coursework, and opportunities to solve real-world problems and to conduct original research.

G/T Content Classes

An accelerated and enriched program is provided for students who participate in one or more G/T classes. These classes replace the general education classes in each subject area and are taught on a daily basis by designated G/T content area teachers. All Howard County public middle schools offer G/T classes in the following academic areas: English, mathematics, science, and social studies. The G/T Resource Teacher works collaboratively with the G/T content area teachers to support the implementation of a differentiated curriculum for advanced-level learners.

The G/T Writers Guild is an extension of the seventh-grade writing program for selected students who participate in G/T English. This extension unit, taught by the G/T Resource Teacher in a writers' workshop format, provides talented creative writers with the opportunity to produce authentic writing based on their individual interests and to have a clear understanding of the elements that constitute compelling writing. Participating students meet at least twice monthly and are expected to submit their writing for publication consideration.

Placement Process for G/T Content Classes

Students are placed in G/T content area classes based upon multiple criteria. The first step in the placement process includes the testing of all students in Grade 5 using the Cognitive Abilities Test (CogAT). Those students entering HCPSS in middle school will be tested using the School and College Ability Test (SCAT). In addition to those students whose scores fall within the CogAT or SCAT eligibility ranges, students also may be recommended to participate in G/T content classes by the school's G/T Placement Committee. This committee reviews multiple data points related to a student's performance, including additional assessment scores, student work samples, Instructional Seminar and Curriculum Extension Unit participation, report card grades, and parental input. The committee may recommend placement at the end of elementary school or in subsequent middle school years. If after reviewing the Placement Committee's professional recommendation, parents/guardians still wish to enroll their students in one or more G/T classes, they may complete the Course Placement Review Form.

G/T Instructional Seminars

G/T Instructional Seminars focus on talent development by instructing students in a broad range of advanced-level skills in an area of interest as they engage in inquiry or creative production. Skill development might include written, oral, and visual communication skills, critical and creative thinking skills, research skills, technology skills, and skills in visual and performing arts.

Television Production, Middle School Book Club, and the Debate seminars are offered in each of the school system's middle schools. Additional seminars are offered, such as journalism, environmental studies, robotics, creative problem solving, film production, and leadership, based upon the interests of the students at the school. G/T Instructional Seminars are open to all interested students.

GT-100-8 MS G/T Research Grade 6

G/T Research is designed for sixth grade students who participate in G/T English and G/T Mathematics, based upon the recommendation of the G/T Placement Committee. Taught by the G/T Resource Teacher, this class provides a curricular framework for students to become producers of new knowledge as they apply

the research skills modeled in the curriculum to an original investigation in a self-selected area of study. Participating students are expected to culminate their research investigation by creating an original product to be shared with an authentic audience.

Health Education

Health Education helps students develop the knowledge, attitudes, and skills they need to avoid risky behavior and maintain and improve their health. Health instruction gives students opportunities to practice skills that result in health-promoting behaviors. The standards for health education are designed to help students become health literate, obtain, interpret, and understand basic health information and services, and use such information and services in ways that enhance health.

HE-100-8

HE-100-9

Health

Grade 6

Students will develop an understanding of health concepts, behaviors, and skills that reduce health risks and enhance the health and well-being of self and others. Specific topics will include safety and first aid, communicable disease, tobacco prevention, and sexual health. Students will engage with this content in the context of health skills: analyzing influences, accessing health information, communication, decision- making, goal-setting, self-management, and advocacy.

HE-200-8

HE-200-9

Health

Grade 7

Students will develop an understanding of health concepts, behaviors, and skills that reduce health risks and enhance the health and well-being of self

and others. Specific topics will include social and emotional health, nutrition, non-communicable disease, alcohol prevention, and sexual health. Students will engage with this content in the context of health skills: analyzing influences, accessing health information, communication, decision- making, goal-setting, self-management, and advocacy.

HE-300-8

HE-300-9

Health

Grade 8

Students will develop an understanding of health concepts, behaviors, and skills that reduce health risks and enhance the health and well-being of self and others. Specific topics will include safety and injury prevention, drug prevention, stress management, depression, suicide prevention, and sexual health. Students will engage with this content in the context of health skills: analyzing influences, accessing health information, communication, decision- making, goal-setting, self-management, and advocacy.

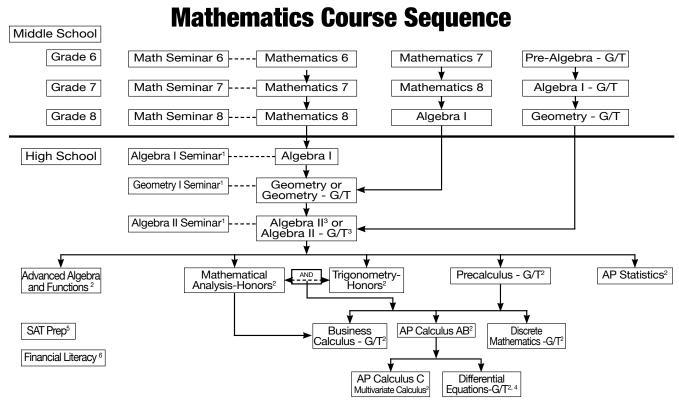


Mathematics

The need for all students to study mathematics is evident as society has become increasingly technology dependent. Mathematical reasoning, problem solving, communication, connections, and the strategic use of different representations, tools, and technology are major elements in all mathematics courses. Courses in mathematics are crucial for students as they transition from middle to high school. Mathematics is crucial for those students who plan to continue their education in college, as well as those students who plan to enter the workforce immediately upon completion of high school.

Mathematics Placement

Students who generally perform on grade level will be enrolled in Mathematics 6 in grade 6. Students requiring additional instructional time and support to master grade level content will be concurrently enrolled in Mathematics 6 Seminar. Incoming grade 6 students who successfully perform in above grade level mathematics in grade 5 will be enrolled in Mathematics 7. In addition, incoming grade 6 students who score at the 83rd percentile or higher on the Cognitive Abilities Test (CogAT QN), and/or meet or exceed HCPSS performance benchmarks will be considered for enrollment in Mathematics 7. Students who successfully perform in 5th Grade G/T mathematics, score in the 92nd percentile or higher on the CogAT QN and/or demonstrate advanced performance through the G/T placement process will be enrolled in grade 6 Pre-Algebra G/T. The Accelerated G/T Mathematics Program is provided for students who show outstanding ability and a high level of performance in mathematics to progress through the sequence of mathematics courses at an accelerated rate (Algebra I G/T in grade 6, Geometry G/T in grade 7, and Algebra II in grade 8). Consideration for placement in the Accelerated Mathematics Program includes scores in the 99th percentile for both the CogAT Quantitative and Quantitative-Nonverbal composite, a 4th grade PARCC scale score of at least 810, as well as demonstration of outstanding performance in 5th grade G/T Mathematics.



- Note 1: Math Seminar 6, Math Seminar 7, and Math Seminar 8 are courses to be taken together with their corresponding course. Algebra I Seminar, Geometry Seminar, and Algebra II Seminar are elective credits to be taken together with their corresponding course.
- **Note 2:** These courses serve as eligible transition mathematics courses for students in grade 12 who have not achieved College and Career Readiness by the end of the eleventh grade.
- Note 3: Algebra 2 and Algebra 2 G/T satisfy the transition course experience if taken in grade 12 with additional content modules.
- Note 4: Differential Equations G/T is an option for advanced mathematics students who have completed or are concurrently enrolled in AP Calculus C/Multivariate Calculus.
- Note 5: A student may enroll in the one-semester, SAT Prep in any sequence after the completion of high school Geometry.
- Note 6: Financial Literacy counts as an elective credit but not as a mathematics credit.

Mathematics

MA-101-1 Mathematics 6 Grade 6

In this course, students will focus on the mastery of five critical areas: 1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; 2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; 3) writing, interpreting, and using expressions and equations; (4) reasoning about relationships among shapes to determine area, surface area, and volume; and (5) developing understanding of statistical thinking.

MA-100-1 Mathematics 6 Seminar Grade 6

In this seminar course, students will deepen their understanding of grade level content (Mathematics 6) while reviewing these two critical areas: 1) developing fluency with addition and subtraction of fractions, and developing understanding of the multiplication and division of fractions in limited cases (unit fractions divided by whole numbers and whole numbers divided by unit fractions); and 2) extending division to 2-digit divisors, integrating decimal fractions into the place value system and developing understanding of operations with decimals to hundredths, and developing fluency with whole number and decimal operations. This course focuses on the application of mathematics, strategies for problem solving, the development of the Standards for Mathematical Practices, and Disciplinary Literacy. This course is taken concurrently with Mathematics 6.

MA-303-1 Pre-Algebra G/T Grade 6

In this Gifted and Talented course, students will focus on the mastery of four critical areas: 1) working with rational and irrational numbers and applying properties of the law of exponents to simplify expressions; 2) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean theorem; 3) grasping the concept of a function and using functions to describe quantitative relationships; and 4) drawing inferences about populations based on samples.

MA-201-1 Mathematics 7 Grades 6, 7

In this course, students will focus on the mastery of five critical areas: 1) developing understanding of operations with rational numbers; 2) developing understanding of and applying proportional relationships; 3) working with expressions and linear equations; 4) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and 5) drawing inferences about populations based on samples.

MA-200-1 Mathematics 7 Seminar Grade 7

In this seminar course, students will deepen their understanding of grade level content (Mathematics 7) while reviewing these two critical areas: 1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; and 2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers. This course focuses on the application of mathematics, strategies for problem solving, the development of the Standards for Mathematical Practices, and Disciplinary Literacy. *This course is taken concurrently with Mathematics 7.*



Mathematics

MA-301-1 Mathematics 8 Grades 7, 8

The major content in Mathematics 8 is comprised of the following critical areas: 1) working with rational and irrational numbers and applying properties of the law of exponents to simplify expressions; 2) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean theorem; 3) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with linear equations, and solving linear equations and systems of linear equations; grasping the concept of a function and using functions to describe quantitative relationships; 4) describing the association between two quantities in bivariate data, analyzing the relationships, and predicting trends between two paired variables related to a question of interest; and 5) solving problems involving volumes of cylinders, cones, and spheres.

MA-300-1 Mathematics 8 Seminar Grade 8

In this seminar course, students will deepen their understanding of grade level content (Pre-Algebra Grade 8) while reviewing these two critical areas: 1) developing understanding of and applying proportional relationships; and 2) developing understanding of operations with rational numbers and working with expressions and linear equations. This course focuses on the application of mathematics, strategies for problem solving, the development of the Standards for Mathematical Practices, and Disciplinary Literacy. *This course is taken concurrently with Mathematics 8.*

MA-401-1 Algebra I Grade 8

In this above-grade-level course, students will focus on the mastery of five critical areas: 1) developing understanding and investigating relationships between quantities and reasoning with equations; 2) developing understanding and applying linear and exponential relationships; 3) investigating trends and modeling with descriptive statistics; 4) performing arithmetic operations on polynomial expressions, solving equations, inequalities, and systems of equations; and 5) using properties of rational and irrational numbers to develop an understanding of quadratic functions. One

high school credit will be awarded upon successful completion of this course. See *Credit for High School Courses Taken in Middle School*, page 7 for more information.

MA-403-1 Algebra I G/T Grade 7

In this Gifted and Talented course, students will focus on the in-depth mastery of five critical areas: 1) developing understanding and investigating relationships between quantities and reasoning with equations; 2) developing understanding and applying linear and exponential relationships; 3) investigating trends and modeling with descriptive statistics; 4) performing arithmetic operations on polynomial expressions, solving equations, inequalities, and systems of equations; and 5) using properties of rational and irrational numbers to develop an understanding of quadratic functions. Course requirements are rigorous and emphasize the use of mathematical modeling to solve applicationsbased problems and other high cognitive demand tasks. One high school credit will be awarded upon successful completion of this course. See Credit for High School Courses Taken in Middle School, page 7 for more information.

MA-433-1 Geometry G/T Grade 8

In this Gifted and Talented course, students will focus on the development of transformational, Euclidean, and coordinate geometry with extensive real-world application. Students work with rigid motions, dilations, and constructions of geometric figures to establish criteria for determining if two figures are similar and/or congruent. Students prove theorems and apply concepts of proportional reasoning to begin to explore right triangle trigonometry. Students also explore probability of compound events. One high school credit will be awarded upon successful completion of this course. Credit for High School Courses Taken in Middle School, page 7 for more information.

Physical Education

The goal of physical education at the middle school level is to develop physically literate individuals who have the knowledge, skills, and confidence to enjoy a lifetime of healthful physical activity. Elementary school physical education focuses on basic developmental skills and movements, while high school physical education focuses more on personal choices and specialization. The middle school physical education program is a bridge between skills and specialization by allowing for exploration and exposing students to the plethora of sports and activities available to them. The middle school physical education program curriculum provides a wide variety of activities including fitness and motor-skill development activities, lifetime recreational activities, dance, and team and individual sports opportunities which students can participate in during and outside of the school day.

PE-100-8 PE-100-9

Physical Education

Grade 6

Students will combine fundamental motor skills into more complex movement forms in dance and rhythms, games and sports, individual-performance activities, and fitness. Cooperative and non-competitive activities are appropriate with emphasis on developing skills and tactical understanding. Students will solve problems and make responsible decisions while working in small-group activities. Students will exhibit personal responsibility by using appropriate etiquette, demonstrating respect for self and others, and exhibiting safe behaviors. Students will engage in a variety of practice tasks that will provide them with the skills and knowledge to live healthy and physically active lives.

PE-200-8 PE-200-9

Physical Education

Grade 7

Students will continue to develop competence in dance and rhythms, games and sports, individual-performance activities, and fitness. Cooperative and non-competitive activities are appropriate with emphasis on continuing to develop skills and tactical understandings of strategies learned in grade six. Students will identify barriers related to maintaining a physically active lifestyle and seek solutions for eliminating those barriers. Students will exhibit responsible social behavior by cooperating with classmates, demonstrating inclusive behaviors, and supporting classmates. Students will engage in a variety of small-group activities that will provide them with the skills and knowledge to live healthy and physically active lives.

PE-300-8 PE-300-9 Physical Education Grade 8

Students will demonstrate competence in skillful movements in dance and rhythms, games and sports, individual-performance activities, and fitness in a variety of contexts. Students will apply tactics and strategies to modified game play. Students will assess their health-related fitness status and set reasonable and appropriate goals for development, maintenance, and improvement. Students will respond appropriately to participants' ethical and unethical behaviors during physical activity. Students will engage in a variety of modified activities that will provide them with the skills and knowledge to live healthy and physically active lives.



Reading

The Howard County Public School System middle school reading program focuses on producing strategic, independent readers through the implementation of a rigorous curriculum that aligns with the Maryland College and Career-Ready Standards. The reading program is designed to prepare school system graduates for success in entry-level, credit-bearing academic college courses and in workforce training programs. Students are provided with opportunities to meet their individual needs through engaging reading experiences.

Reading Placement

The Inquiry and Innovation Reading Modules engage students in creativity, innovation, critical thinking and problem solving. Students apply specific disciplinary literacy skills to authentic and relevant real-world situations. Students are provided with learning experiences that promote depth of knowledge across the middle school curriculums. The units are designed to provide opportunities for students to problem solve, develop research skills, enhance oral communication skills, and extend both critical writing and thinking skills across curricular contents. Students are immersed in an environment that allows for collaboration, initiative, curiosity, and adaptability. Learners are provided with multiple opportunities to access and analyze information. Reading module choices include the following areas of study: literature/humanities, science, social studies, and technical subjects. Within each nine-week unit students will build a deeper understanding of the topic of study.

Students in grade 6 are required to enroll in Expanding and Exploring Careers, the Related Arts Module, to fulfill COMAR requirements.

Students who are enrolled in Middle School Reading Seminar Courses are provided with targeted support to address their specific Reading needs in the areas of decoding, fluency, and comprehension. The course is conducted using a flexible grouping model to incorporate individual student needs. Literacy success is achieved by providing personalized educational experiences while continuing to address the Maryland College and Career-Ready Standards. Individual student achievement data is constantly monitored to provide timely, meaningful information to help teachers adjust instruction to provide the appropriate level of challenging instruction for learners. Clearly defined criteria are established to exit this class once the standards have been met.

LA-155-1

Seminar-C Reading (Comprehension) Grade 6

Middle School Reading Seminar C provides support for students who require an intervention in comprehension. The course is conducted using a flexible grouping model to incorporate individual student needs. Individual student achievement data is constantly monitored to provide timely, meaningful information to help teachers adjust instruction to provide the appropriate level of challenging instruction for learners. Clearly defined criteria are established to exit this class once the student has met the standards.

LA-150-1

Seminar-D Reading (Decoding) Grade 6

Middle School Reading Seminar D provides support for students who require an intervention in decoding, fluency, and comprehension. The course is conducted using a flexible grouping model to incorporate individual student needs. Individual student achievement data is constantly monitored to provide timely, meaningful information to help teachers adjust instruction to provide the appropriate level of challenging instruction for

learners. Clearly defined criteria are established to exit this class once the student has met the standards.

LA-160-1 Innovation and Inquiry Grade 6

The Inquiry and Innovation Reading Modules engage students in creativity, innovation, critical thinking and problem solving. Students apply specific disciplinary literacy skills to authentic and relevant real-world situations. Students are provided with learning experiences that promote depth of knowledge across the middle school curriculums. The units are designed to provide opportunities for students to problem solve, develop research skills, enhance oral communication skills, and extend both critical writing and thinking skills across curricular contents. Students are immersed in an environment that allows for collaboration, initiative, curiosity, and adaptability. Learners are provided with multiple opportunities to access and analyze information. Reading module choices include the following areas of study: literature/humanities, science, social studies, and technical subjects. Within each nineweek unit students will build a deeper understanding of the topic in each of the individual units.

Reading

LA-161-8

Innovation and Inquiry: Expanding and Exploring Career Options Grade 6

Students will explore their career aspirations in this class by exploring a variety of interests and talents, developing an understanding of current and emerging career possibilities, and identifying how career choice can be a reflection of self. In addition, students will research the career of an individual, analyzing the obstacles and choices, and reflect on career biographies in order to expand their career aspirations and connect classroom learning to real-world roles and opportunities. In addition, students will have the opportunity to acquire research skills necessary for success in all content areas. Students in grade 6 are required to enroll in Expanding and Exploring Careers, the Related Arts Module, to fulfill COMAR requirements.

LA-255-1 Seminar-C Reading (Comprehension)

Middle School Reading Seminar C provides support for students who require an intervention in comprehension. The course is conducted using a flexible grouping model to incorporate individual student needs. Individual student achievement data is constantly monitored to provide timely, meaningful information to help teachers adjust instruction to provide the appropriate level of challenging instruction for learners. Clearly defined criteria are established to exit this class once the student has met the standards.

LA-250-1 Seminar-D Reading (Decoding) Grade 7

School Reading Seminar D provides support for students who require an intervention in decoding, fluency, and comprehension. The course is conducted using a flexible grouping model to incorporate individual student needs. Individual student achievement data is constantly monitored to provide timely, meaningful information to help teachers adjust instruction to provide the appropriate level of challenging instruction for learners. Clearly defined criteria are established to exit this class once the student has met the standards.

LA-260-1 Innovation and Inquiry Grade 7

The Inquiry and Innovation Reading Modules engage students in creativity, innovation, critical thinking and problem solving. Students apply specific disciplinary literacy skills to authentic and relevant real-world situations. Students are provided with learning experiences that promote depth of knowledge across the middle school curriculums. The units are designed to provide opportunities for students to problem solve. develop research skills, enhance oral communication skills, and extend both critical writing and thinking skills across curricular contents. Students are immersed in an environment that allows for collaboration, initiative. curiosity, and adaptability. Learners are provided with multiple opportunities to access and analyze information. Reading module choices include the following areas of study: literature/humanities, science, social studies, and technical subjects. Within each nine week unit students will build a deeper understanding of the topic in each of the individual units.

LA-261-8 Innovation and Inquiry: Digital Citizenship Grade 7

Digital Citizenship is an idea that encompasses all realms of the Web from the globalized world in which we live. Curriculum staff and teachers have developed this module for next-generation learners to provide rigor and relevance for all students. The design of the module should make it easier for teachers to deliver content, while helping all students achieve. During this unit, students will create an authentic product that could be published online. While exploring the different topics, students will reflect on how each topic impacts their personal publishing product using the Independent Product Product/Reflection Document.

LA-355-1 Seminar-C Reading (Comprehension) Grade 8

Middle School Reading Seminar C provides support for students who require an intervention in comprehension. The course is conducted using a flexible grouping model to incorporate individual student needs. Individual student achievement data is constantly monitored to provide timely, meaningful information to help teachers adjust instruction to provide the appropriate level of challenging instruction for learners. Clearly defined criteria are established to exit this class once the student has met the standards.

Reading

LA-350-1 Seminar-D Reading (Decoding) Grade 8

Middle School Reading Seminar D provides support for students who require an intervention in decoding, fluency, and comprehension. The course is conducted using a flexible grouping model to incorporate individual student needs. Individual student achievement data is constantly monitored to provide timely, meaningful information to help teachers adjust instruction to provide the appropriate level of challenging instruction for learners. Clearly defined criteria are established to exit this class once the student has met the standards.

LA-360-1 Innovation and Inquiry Grade 8

This course engages students in creativity, innovation, critical thinking and problem solving. Students apply specific disciplinary literacy skills to authentic and relevant real-world situations. Students are provided with learning experiences that promote depth of knowledge across the middle school curriculums. The units are designed to provide opportunities for students

to problem solve, develop research skills, enhance oral communication skills, and extend both critical writing and thinking skills across curricular contents. Students are immersed in an environment that allows for collaboration, initiative, curiosity, and adaptability. Learners are provided with multiple opportunities to access and analyze information. Reading module choices include the following areas of study: literature/humanities, science, social studies, and technical subjects. Within each nineweek unit students will build a deeper understanding of the topic in each of the individual units.

LA-361-8 Innovation and Inquiry Module: The Future of Food Grade 8

Students will explore the sustainability of the food they eat while learning about the history of food and its evolution. An understanding of food choices and their effect on health and well-being will be developed. Students will learn about the economics of food and how the growth of food relates to the environment. Additional components of the unit will include analysis of food information and how the information is presented to the public.



Science

The Howard County Public School System middle school science program is designed to be student-centered and to engage all students physically and mentally in an inquiry-based laboratory program where students operate as "Student-Scientists." The major goal of the middle school program is to develop substantive science literacy in all students. The middle school science curriculum integrates the Practices of Science and Engineering with important ideas from each of the major disciplines of science. The Crosscutting Concepts, or big ideas, of science provide an organizational framework so that students develop deep and lasting understanding of science. The learning environment in science promotes students' thinking, honesty, curiosity, and questioning. Students will be empowered to express and share points of view, solve problems, and make decisions based on evidence. The middle school science curriculum is built around driving questions that set the context for learning. Laboratory experiences are integral within each middle school science course.

At the middle school level, students learn Earth Science, Life Science and Physical Science in grades six, seven and eight respectively. On grade level and G/T level are offered for each course. Teachers of the G/T level courses will differentiate their instruction to meet the unique needs of high ability learners. The ultimate goal of the science program is to guide all students to intelligent decision-making through the assimilation of scientific knowledge and the application of scientific inquiry. The middle school program provides students with opportunities to expand, change, enhance, and modify the ways in which they view the world. Disciplinary literacy is emphasized throughout the program; environmental literacy is integrated into each grade level.

All students will participate in the Maryland Integrated Science Assessment (MISA) at the end of grade 8. MISA will include science ideas from each of the three science disciplines, Earth/Space Science, Life Science, and Physical Science.

SC-100-1 Earth Science

Grade 6

This course is comprised of four units designed to address the following big ideas from the Maryland Science Standards: how Earth's place in the Universe can be described; how to explain the composition of the Solar System and how the motion of Earth can explain seasons and eclipses; how people figure out that Earth and life on Earth have changed over time; and how the movement of tectonic plates impacts the surface of the Earth. Units are organized around a driving question. Within each driving question, students engage in a series of unique learning experiences that are carefully designed to immerse them in the science and engineering practices as they construct their understanding of important concepts. Students also have opportunities to learn and apply engineering-specific practices such as designing solutions to identified problems.

SC-105-1 Earth Science G/T Grade 6

This course is comprised of four units designed to address the following big ideas from the Maryland Science Standards: how Earth's place in the Universe can be described; how to explain the composition of the Solar System and how the motion of Earth can explain seasons and eclipses; how people figure out that Earth and life on Earth have changed over time; and how the movement of tectonic plates impacts the surface of the Earth. Units are organized around a driving question. Within each driving question, students engage in a series of unique learning experiences that are carefully designed to immerse them in the science and engineering practices as they construct

their understanding of important concepts. Students also have opportunities to learn and apply engineering-specific practices such as designing solutions to identified problems. In the G/T level course, teachers will differentiate their instruction to meet the unique needs of high ability learners through pacing and compacting, differing levels of challenge, strategic flexible groupings, and opportunities for self-directed inquiry.

SC-200-1 Life Science Grade 7

This course is comprised of four units designed to address the following big ideas from the Maryland Science Standards: how the structures of organisms can contribute to life's functions; how organisms can grow, develop and reproduce; how can individual organisms obtain and use matter and energy; how energy can move through an ecosystem; how organisms interact with other organisms in the physical environment to obtain matter and energy; how genetic variation among organisms in species can affect survival and reproduction; and how the environment can influence genetic traits in populations over multiple generations. Units are organized around a driving question. Within each driving question, students engage in a series of unique learning experiences that are carefully designed to immerse them in the science and engineering practices as they construct their understanding of important concepts. Students also have opportunities to learn and apply engineering-specific practices such as designing solutions to identified problems.

Science

SC-205-1 Life Science G/T Grade 7

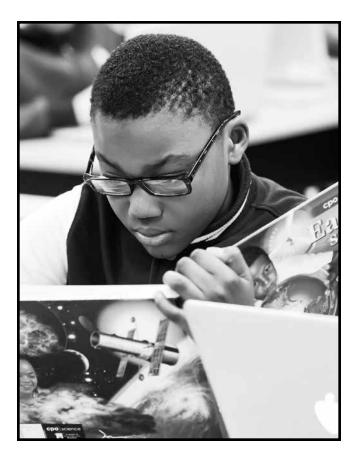
This course is comprised of four units designed to address the following big ideas from the Maryland Science Standards: how the structures of organisms can contribute to life's functions; how organisms can grow, develop and reproduce: how can individual organisms obtain and use matter and energy; how energy can move through an ecosystem; how organisms interact with other organisms in the physical environment to obtain matter and energy; how genetic variation among organisms in species can affect survival and reproduction; and how the environment can influence genetic traits in populations over multiple generations. Units are organized around a driving question. Within each driving question, students engage in a series of unique learning experiences that are carefully designed to immerse them in the science and engineering practices as they construct their understanding of important concepts. Students also have opportunities to learn and apply engineeringspecific practices such as designing solutions to identified problems. In the G/T level course, teachers will differentiate their instruction to meet the unique needs of high ability learners through pacing and compacting, differing levels of challenge, strategic flexible groupings, and opportunities for self-directed inquiry.

SC-300-1 Physical Science Grade 8

This course is comprised of three units designed to address the following big ideas from the Marvland Science Standards: how atomic and molecular interactions can explain the properties of matter that we see and feel; how one can describe physical interactions between objects and within systems of objects; how energy can be transferred from one object or system to another; and how the characteristic properties of waves can be used. Units are organized around a driving question. Within each driving question, students engage in a series of unique learning experiences that are carefully designed to immerse them in the science and engineering practices as they construct their understanding of important concepts. Students also have opportunities to learn and apply engineeringspecific practices such as designing solutions to identified problems.

SC-305-1 Physical Science G/T Grade 8

This course is comprised of three units designed to address the following big ideas from the Maryland Science Standards: how atomic and molecular interactions can explain the properties of matter that we see and feel: how one can describe physical interactions between objects and within systems of objects; how energy can be transferred from one object or system to another; and how the characteristic properties of waves can be used. Units are organized around a driving question. Within each driving question, students engage in a series of unique learning experiences that are carefully designed to immerse them in the science and engineering practices as they construct their understanding of important concepts. Students also have opportunities to learn and apply engineering-specific practices such as designing solutions to identified problems. In the G/T level course. teachers will differentiate their instruction to meet the unique needs of high ability learners through pacing and compacting, differing levels of challenge, strategic flexible groupings, and opportunities for self-directed inquiry.



Social Studies

Middle School Social Studies supports Goal 1 of *Vision 2018: Fulfilling the Promise of Preparation* through its focus on promoting the ability among students to make informed and reasoned decisions for the public good, to apply disciplinary literacy and problem solving skills within relevant content, and to understand their roles and responsibilities as citizens in a democratic society. These are foundational skills of lifelong learning and key components in the process of preparing students to navigate in a global environment, and to critically evaluate information in a rapidly changing world. Social studies instruction is an integral part of the implementation of the Maryland College and Career-Ready Standards and facilitates the integration of disciplinary literacy skills, writing, critical thinking, and problem solving across the curriculum.

History Day

National History Day® (NHD) is a highly regarded academic organization for elementary and secondary school students.

Each year, more than half a million students, encouraged by thousands of teachers nationwide, participate in the NHD contest. Students choose historical topics related to a theme and conduct extensive primary and secondary research through libraries, archives, museums, oral history interviews and historic sites. After analyzing and interpreting their sources and drawing conclusions about their topics' significance in history, students present their work in original papers, exhibits, performances and documentaries. These products are entered into competitions in the spring at local, state and national levels where they are evaluated by professional historians and educators. The program culminates in a national competition each June held at the University of Maryland at College Park.

In addition to discovering the exciting world of the past, NHD also helps students develop the following attributes that are critical for future success:

- · critical thinking and problem-solving skills
- · research and reading skills
- oral and written communication and presentation skills
- self-esteem and confidence
- a sense of responsibility for and involvement in the democratic process

More than 5 million students have gone on to careers in business, law, medicine and countless other disciplines where they are putting into practice what they learned through NHD.

The Office of Secondary Social Studies, in collaboration with the Office of Gifted and Talented Programs, sponsors a regional History Day Competition for the students of Howard County. Schools also have school-wide competitions, and then send the top 10 projects from their schools, with a maximum of 2 per category. The teachers then register these online for our countywide event.

The regional competition is a large event which includes students, parents, teachers, news reporters, and performers. Up to 300 students are evaluated by judges recruited from the local community and our teaching staff. The top two projects per category then move on to the statewide competition.

SO-100-1

Geography and World Cultures Grade 6

Students will study the first part of a two-year program entitled Geography and World Cultures. Course content includes the study of, geographic reasoning, historical thinking, disciplinary literacy, and writing/communication skills. For each unit, the students will learn the human and physical geography, ancient history, and contemporary issues about the Middle East, Africa, and Asia.

SO-101-1

Geography and World Culture G/T Grade 6

The Gifted and Talented Social Studies course provides a differentiated curriculum in which students engage in more rigorous critical thinking and problem solving activities that require deeper analysis and understanding. All students learn the social science research process and begin the development of research and writing skills that will prepare them for extended research investigations, such as National History Day, in grade 7 or 8.

SO-200-1 Geography and World Cultures

Grade 7

Students will study the second part of a two-year program entitled *Geography and World Cultures*. Course content includes the study of geographic reasoning, historical thinking, disciplinary literacy, and writing/communication skills. For each unit, the students will learn the human and physical geography, ancient history, and contemporary issues about Western Europe, Eastern Europe and Eurasia, Latin America, and North America.

Social Studies

SO-201-1

Geography and World Cultures G/T Grade 7

The Gifted and Talented Social Studies course provides a differentiated curriculum in which students engage in more rigorous critical thinking and problem solving activities that require deeper analysis and understanding. In grade 7, students begin to apply the social science research process through the development of a research project in history, or through participation in National History Day.

SO-300-1 United States History Grade 8

Students will study the first part of a two-year program in United States History, focusing on the period from approximately 1763 to 1877. This program provides opportunities for students to develop an understanding of historical reading skills, chronological reasoning skills, key historical concepts, and content related to the history of our nation.

SO-301-1 United States History G/T Grade 8

The Gifted and Talented Social Studies course provides a differentiated curriculum in which students engage in more rigorous critical thinking and problem solving activities that require deeper analysis and understanding. All students complete a multi-stage historical research paper based on national standards or participate in National History Day.



Special Education

Special education services in each Howard County middle school are designed to provide instruction, related services, and support for students who have been determined to be eligible through the Individualized Education Program (IEP) process. An IEP is developed for each student with a disability by the IEP team and reflects special education and related services in accordance with least restrictive environment guidelines. All students must complete graduation requirements in order to earn a Maryland high school diploma.

RE-100-0 Resource English Grades 6, 7, 8

In this course, students with IEPs are working towards a Maryland Certificate of Program Completion and are working on individualized reading and written language goals and objectives aligned with modified English curriculum and Alternative State Standards. Students take the Multistate Reading Alternative Assessment in grade 6, 7 or 8.

RE-110-0 Resource Mathematics

Grades 6, 7, 8

In this course students with IEPs are working towards a Maryland Certificate of Program Completion and are working on individualized goals and objectives aligned with modified mathematics curriculum. Students take the Multistate Mathematics Alternative Assessment in grade 6, 7 or 8.

RE-120-0

Resource Science Grades 6, 7, 8

In this course, students with IEPs are working towards a Maryland Certificate of Program Completion and are working on individualized goals and objectives aligned to the science curriculum and Alternative State Standards. Students take the Science Alternative Assessment in grade 8.

RE-130-0

Resource Social Studies

Grades 6, 7, 8

In this course, students with IEPs are working towards a Maryland Certificate of Program Completion and are working on individualized goals and objectives aligned to the social studies curriculum and Alternative State Standards. RE-150-0 Grade 6

RE-250-0 Grade 7

RE-350-0 Grade 8

Braille

Grades 6, 7, 8

This tutorial aligns with the IEP of a student who is blind or visually impaired. Instruction is provided in the reading and writing of Unified English Braille and the Nemeth Braille Code for Mathematics and Science Notation. Instruction in the following specialized Braille codes is provided as appropriate: foreign language, music, computer, and chemical codes. Additional areas of instruction include tactile graphics, textbook format, and the use of specialized technology to access and produce written work.

RE-140-0

Communication, Self-Advocacy and Learning Behaviors Grades 6, 7, 8

Students will expand their skills by providing authentic school-based experiences connected to skills needed for future employment and community life. These experiences will be based on appropriate communication, self-advocacy and learning behaviors needed for any job or career. Students will effectively use purposeful and appropriate communication across all settings, exhibit behavior that matches their tasks and/or environment, and decrease the need for adult prompting and increase engagement for instruction/learning. This course is designed for students with IEPs who are working toward a Maryland Certificate of Program Completion.

Technology Education

Students in the Middle School Engineering and Technology Education program use hands-on lessons to learn key concepts about engineering, design, invention, and innovation and the roles those concepts play in creating technological systems to help make life better. Students learn to apply and transfer this knowledge to real-world problems using creative problem solving strategies and critical thinking skills. The program incorporates the applications of technology, engineering, mathematics, and science concepts.

CT-100-8 CT-100-9

Technology Education

Grade 6

Students will develop an understanding of technology and its impact through exploratory experiences. Through group and individual activities, students experience ways in which technological knowledge and processes contribute to effective designs, abilities, and skills to create solutions to technological problems. Students participate in design activities to understand how criteria, constraints, and processes affect designs. Brainstorming, visualizing, modeling, constructing, testing, and refining designs provide firsthand opportunities for students to understand the uses and impacts of innovations.

CT-200-8 CT-200-9

Technology Education

Grade 7

Invention and innovation provides students with opportunities to apply the design process in the invention or innovation of a new product, process, or system. Through group and individual activities, students will study the history of inventions and innovations, including their impacts on society. They will learn about the core concepts of technology, about the various approaches to solving problems, including engineering design and experimentation. Activities will allow students to research and examine how various inventions and innovations impact their lives.

CT-300-8 CT-300-9

Technology Education

Grade 8

Students will develop understanding of the scope of technology and the iterative nature of technological design and problem-solving processes. Participation in engineering design activities will increase understanding of how criteria, constraints, and processes affect designs. This course gives students a general background on the different types of systems but concentrates more on the connections between systems. Activities and experiences are designed to emphasize science and math applications making this a true STEM course.



World Languages

The World Language program provides world-readiness by preparing students to participate in a multilingual environment that values other cultures, with the goal of developing functional proficiency in world languages. The World Language program incorporates a proficiency-based curriculum that enables students to use the world language in real life situations in an immersion setting. World Language teachers leverage the power of technology and engaging resources to meet the needs of their diverse leaders.

Middle school world language teachers offer differentiated instruction for students who have come from the elementary world language program, are heritage speakers, or beginners to the language of study. The differentiated instruction is done through tiering assignments, the station-rotation model, providing open-ended performance tasks, and through leveled target language reading groups.

Depending on the middle school, students may choose to study Chinese, French or Spanish in grades 6-8 or grades 7-8. Sixth grade world language classes meet every other day and world language classes meet every day in seventh and eighth grades. The following chart indicates which languages are available at the middle school level.

Schools	Languages	Grades
Mount View Middle School Murray Hill Middle School	Chinese, French, Spanish	6-8
Bonnie Branch Middle School Lake Elkhorn Middle School Oakland Mills Middle School Patapsco Middle School Thomas Viaduct Middle School Wilde Lake Middle School	French, Spanish	6-8
All other middle schools	French, Spanish	7-8

WL-100-8 - Grade 6

WL-200-1 - Grade 7

WL-300-1 - Grade 8

Chinese

Chinese I introduces students to the Chinese language and culture with an overview of Chinese history, people, current affairs, politics, economics, science, technology, arts, and literature. Students explore pronunciation and common terms and may expect experiences in all four of the traditional language acquisition skills with an emphasis on listening and speaking. Chinese I highlights the evolution and Romanization of Chinese and a study of tone, an extremely important aspect of the Chinese language.

WL-110-8 - Grade 6

WL-210-1 - Grade 7

WL-310-1 - Grade 8

French

This course is an introduction to the French language and francophone culture. In French I, students communicate on a variety of topics, such as exchanging greetings, identifying classroom objects, describing family members, telling time, describing weather

conditions and seasons, locating places around town, and ordering foods in a café. Students explore the francophone and examine the differences and similarities between francophone and American cultures.

WL-120-8 - Grade 6

WL-220-1 - Grade 7

WL-320-1 - Grade 8

Spanish

This course introduces students to the language and cultures of the Spanish-speaking world. In Spanish I, students communicate about various topics, such as exchanging greetings, identifying classroom objects, describing family members, telling time, describing weather and seasons, locating places around town, and shopping for clothing. Students explore the Spanish-speaking world, focusing on the geography of Spain and Latin America. They compare relevant aspects of the cultures of the Americas and Spain.

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Geometry G/T	World Languages
DUVOIDAL EDUCATION	Chinese - 6, 7, 8
PHYSICAL EDUCATION	French - 6, 7, 8
Physical Education	Spanish - 6, 7, 8

Directory of Middle Schools

Bonnie Branch

4979 Ilchester Road Ellicott City, MD 21043 Cher Jones, Principal bbms.hcpss.org 410-313-2580 (school)

Burleigh Manor

4200 Centennial Lane Ellicott City, MD 21042 Antoinette Roberson, Principal bmms.hcpss.org 410-313-2507 (school)

Clarksville

6535 South Trotter Road Clarksville, MD 21029 Joelle Miller, Principal cms.hcpss.org 410-313-7057 (school)

Dunloggin

9129 Northfield Road Ellicott City, MD 21042 Jeffrey Fink, Principal dms.hcpss.org 410-313-2831 (school)

Elkridge Landing

7085 Montgomery Road Elkridge, MD 21075 Gina Cash, Principal elms.hcpss.org 410-313-5040 (school)

Ellicott Mills

4445 Montgomery Road Ellicott City, MD 21043 Christopher Rattay, Principal emms.hcpss.org 410-313-2839 (school)

Folly Quarter

13500 Triadelphia Road Ellicott City, MD 21042 Scott Conroy Jr., Principal fqms.hcpss.org 410-313-1506 (school)

Glenwood

2680 Route 97 Glenwood, MD 21738 Robert Motley, Principal gms.hcpss.org 410-313-5520 (school)

Hammond

8100 Aladdin Drive Laurel, MD 20723 Kerry Dufresne, Principal hms.hcpss.org 410-313-5830 (school)

Harper's Choice

5450 Beaverkill Road Columbia, MD 21044 Adam Eldridge, Principal hcms.hcpss.org 410-313-6929 (school)

Lake Elkhorn

6680 Cradlerock Way Columbia, MD 21045 Martin Vandenberge, Principal lems.hcpss.org 410-313-7600 (school)

Lime Kiln

11650 Scaggsville Road Fulton, MD 20759 Lucy Lublin, Principal lkms.hcpss.org 410-880-5988 (school)

Mayfield Woods

7950 Red Barn Way Elkridge, MD 21075 Melissa Shindel, Principal mwms.hcpss.org 410-313-5022 (school)

Mount View

12101 Woodford Drive Marriottsville, MD 21104 Allen Cosentino, Principal mvms.hcpss.org 410-313-5545 (school)

Murray Hill

9989 Winter Sun Road Laurel, MD 20723 Rick Wilson, Principal mhms.hcpss.org 410-880-5897 (school)

Oakland Mills

9540 Kilimanjaro Road Columbia, MD 21045 Megan Chrobak, Principal omms.hcpss.org 410-313-6937 (school)

Patapsco

8885 Old Frederick Road Ellicott City, MD 21043 Cynthia Dillon, Principal pms.hcpss.org 410-313-2848 (school)

Patuxent Valley

9151 Vollmerhausen Road Jessup, MD 20794 Rick Robb, Principal pvms.hcpss.org 410-880-5840 (school)

Thomas Viaduct

700 Banbury Drive Hanover, MD 21076 Shiney Ann John, Principal tvms.hcpss.org 410-313-8711 (school)

Wilde Lake

10481 Cross Fox Lane Columbia, MD 21044 Anne Swartz, Principal wlms.hcpss.org 410-313-6957 (school)

Central Office

Howard County Public School System

10910 Clarksville Pike • Ellicott City, MD 21042 410-313-6600

Notes





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