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Discrimination on the basis of sex, race, age, religious belief, disability, national origin, or ethnic group shall be prohibited in all educational programs and activities of the Huntsville City Schools. Huntsville City Schools’ Compliance Officer/Policy Administrator is Ms. Shirley Wellington. Her office is located on the first floor of the Annie C. Merts Administration Building at 200 White Street, Huntsville, Alabama. Telephone number: 256-428-6836.
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Dear Parents/Guardians and Students,

The 2021-2022 HCS Middle Grades Course Catalog has been revised and updated to assist you with the course selection process for the upcoming school year. The purpose of this guide is to provide you with the information and resources you need to choose middle grade courses that meet your needs and interests. We encourage you to review course descriptions and pre-requisites to make the best and most informed decision you can when choosing courses.

For quick reference and easy use of the digital Course Catalog, click on a section in the table of contents and you will be taken directly to that section.

Your school counselor will serve as your point of contact for all things related to course registration and selection. Counselors are provided with information, materials, and resources to effectively assist students with course selection. Please do not hesitate to reach out to them if you need help or have questions.

We recognize the course selection and registration process is important for students and their families and for our schools. We offer assistance in many forms: classroom guidance activities with students, parent meetings, printed and digital resources, and school registration events. We look forward to working with you as we are preparing for the 2021-2022 school year.

Sincerely,
Huntsville City Schools Secondary Programs Department
# Middle Grades Course Descriptions

## Core Courses

### English / Language Arts (ELA)

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<th>Grade</th>
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<tr>
<td>6th</td>
<td>ELA, Grade 6 (01034G0606)</td>
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<td>ELA, Grade 6, Honors (01037HPK06)</td>
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<tr>
<td></td>
<td>Reading Intervention (01068GPK06)</td>
</tr>
<tr>
<td></td>
<td>English for Speakers of Other Languages, Grade 6 (01008GPK06)</td>
</tr>
<tr>
<td></td>
<td>Reading (01046G0606)</td>
</tr>
<tr>
<td></td>
<td>Reading, Honors (01066HPK06)</td>
</tr>
<tr>
<td>7th</td>
<td>ELA, Grade 7 (01035G0707)</td>
</tr>
<tr>
<td></td>
<td>ELA, Grade 7, Honors (01035H0707)</td>
</tr>
<tr>
<td>8th</td>
<td>ELA, Grade 8 (01036G0808)</td>
</tr>
<tr>
<td></td>
<td>ELA, Grade 8, Honors (01036H0808)</td>
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### 7th and 8th Grade

<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>English for Speakers of Other Languages (01008G1000)</td>
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<tr>
<td>English Intervention (01009G0000)</td>
</tr>
<tr>
<td>Journalism 1 (11101G1013)</td>
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</table>

### English Language Arts, Grade 6 (01034G0606)
Reading literature, reading informational text, writing, speaking, and listening, and language; capitalization, punctuation, spelling, and vocabulary.

### English Language Arts, Honors, Grade 6 (01037HPK06)
Advanced work with grade-level standards to include reading literature, reading informational text, writing, speaking and listening, and language; capitalization, punctuation, spelling, and vocabulary.

### English for Speakers of Other Languages, Grade 6 (01008GPK06)
English Language Learners (ELLs) acquire academic language and communicative competence through the implementation of the World-class Instructional Design and Assessment-English Language Proficiency (WIDA-ELP) Standards.

### Reading, Grade 6 (01046G0606)
Reading literature, reading informational text; skills acquisition, reading techniques, beginning reading to expanding reading power.

### Reading, Honors, Grade 6 (01066HPK06)
Advanced work in skills acquisition, reading techniques, beginning reading to expanding reading power.
READING INTERVENTION, GRADE 6 (01068GPK06)
Remedial work reading to include work in fluency, comprehension, and vocabulary. (Requires approval from counselor.)

ENGLISH LANGUAGE ARTS, GRADE 7 (01035G0707)
Reading literature, reading informational text, writing, speaking, and listening, and language.

ENGLISH LANGUAGE ARTS, HONORS, GRADE 7 (01035H0707)
Advanced work in reading literature, reading informational text, writing, speaking, and listening, and language.

ENGLISH LANGUAGE ARTS, GRADE 8 (01036G0808)
Reading literature, reading informational text, writing, speaking and listening, and language.

ENGLISH LANGUAGE ARTS, HONORS, GRADE 8 (01036H0808)
Advanced work in reading literature, reading informational text, writing, speaking and listening, and language.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES, GRADES 7-8 (01008G1000)
English Language Learners (ELLs) acquire academic language and communicative competence through the implementation of the World-class Instructional Design and Assessment-English Language Proficiency (WIDA-ELP) Standards.

ENGLISH INTERVENTION, GRADES 7-8 (01009G0000)
Remedial work below grade level in reading literature, reading informational text, writing, speaking, and listening, and language. (Requires approval from counselor.)

JOURNALISM 1, (11101G1013)
Available in 7th or 8th grade year. Used as Creative Writing; Newspaper study; newspaper production; news information gathering; proofreading; journalistic writing.
### Mathematics

<table>
<thead>
<tr>
<th><strong>6th Grade</strong></th>
<th><strong>7th Grade</strong></th>
<th><strong>8th Grade</strong></th>
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<tbody>
<tr>
<td>Mathematics, Grade 6 (02036G0606)</td>
<td>Mathematics, Grade 7 (02037G0707)</td>
<td>Mathematics, Grade 8 (02038G0808)</td>
</tr>
<tr>
<td>Mathematics, Grade 6, Honors (02999HPK06)</td>
<td>Mathematics, Grade 7 Accelerated (02037H0707)</td>
<td>Mathematics, Grade 8 Accelerated (02038H0808)</td>
</tr>
<tr>
<td>Mathematics Intervention (02049GPK06)</td>
<td></td>
<td>Geometry with Data Analysis, Honors (02073H1000)</td>
</tr>
</tbody>
</table>

### 7th and 8th Grades

| Mathematics Intervention (02996G0000) |
| Math Elective (Math Team) (02999G0708) |

**Mathematics Pathways**

### MATHEMATICS, GRADE 6 (02036G0606)

Students will understand ratio concepts and use ratio reasoning to solve problems; apply and extend previous understanding of multiplication and division to divide fractions by fractions; compute fluently with multi-digit numbers and find common factors and multiples; apply and extend previous understanding of numbers to the system of rational numbers; apply and extend previous understanding of arithmetic to algebraic expressions; reason about and solve one-variable equations and inequalities; represent and analyze quantitative relationships between dependent and independent variables; solve real-world and mathematical problems involving area, surface area, and volume; develop understanding of statistical variability; and summarize and describe distribution.
MATHEMATICS, GRADE 6, HONORS (02999HPK06)
Advanced work in mathematical computation, problem solving skills, and other mathematical concepts.

MATHEMATICS INTERVENTION, GRADE 6 (02049GPK06)
Remedial work in mathematics. (Requires approval from counselor)

MATHEMATICS, GRADE 7 (02037G0707)
Students will analyze proportional relationships and use them to solve real-world and mathematical problems; apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers; use properties of operations to generate equivalent expressions; solve real-life and mathematical problems using numerical and algebraic expressions and equations; draw, construct, and describe geometrical figures and describe the relationship between them; solve real-life and mathematical problems involving angle measure, area, surface area, and volume; use random sampling to draw inferences about a population; draw informal comparative inferences about two populations; and investigate chance processes and develop, use, and evaluate probability models.

MATHEMATICS, GRADE 7 ACCELERATED (02037H0707)
The Grade 7 Accelerated Mathematics course has been carefully aligned and designed for middle school students who show particular motivation and interest in mathematics. Grade 7 Accelerated Mathematics includes standards from Grade 7 Mathematics and incorporates standards from Grade 8 Mathematics and Algebra I with Probability. Students who complete this class are eligible to enroll in Grade 8 Accelerated Mathematics or Grade 8 Mathematics. Students who complete both Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics are considered to have met the requirements of and may opt to omit the Algebra I with Probability course in their high school mathematics progression to enroll in additional mathematics courses after completing the required Algebra II with Statistics course.

MATHEMATICS, GRADE 8 (02038G0808)
Students will know that there are numbers that are not rational, and approximate them by rational numbers; work with radicals and integer exponents; understand the connections among proportional relationships, lines, and linear equations; analyze and solve linear equations and pairs of simultaneous linear equations; define, evaluate, and compare functions; use functions to model relationships between quantities; understand congruence and similarity using physical models, transparencies, or geometry software; understand and apply the Pythagorean Theorem; solve real-world and mathematical problems involving volume of cylinders, cones, and spheres; and investigate patterns of association in bivariate data.

MATHEMATICS, GRADE 8 ACCELERATED (02038H0808)
Prerequisite(s): 7 Grade Mathematics Accelerated
The Grade 8 Accelerated course has been carefully aligned and designed for middle school students who have completed the Grade 7 Accelerated course and show particular motivation and interest in mathematics. Grade 8 Accelerated contains four content areas: Number Systems and Operations; Algebra and Functions; Data Analysis, Statistics, and Probability; and Geometry and Measurement. The algebra focus is on quadratic relationships. Students who successfully complete this course will be prepared to enter Geometry with Data Analysis in Grade 9 and then accelerate directly into Algebra II with Statistics in Grade 10, thus providing them with an opportunity to take additional, specialized mathematics coursework, such as AP Calculus or AP Statistics, in Grades 11 and 12.

MATHEMATICS INTERVENTION, GRADES 7-8 (02996G0000)
Remedial work in mathematics. (Requires approval from counselor.)

MATH ELECTIVE (MATH TEAM), GRADES 7-8 (02999G0708)
This course is designed for highly motivated math students who plan to participate in math team activities.
Honors Geometry with Data Analysis is the first of three required courses in high school mathematics. In Honors Geometry with Data Analysis, students incorporate knowledge and skills in Geometry and Measurement, Algebra and Functions, and Data Analysis, Statistics, and Probability, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study.
### Science

<table>
<thead>
<tr>
<th>6th Grade</th>
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<th>8th Grade</th>
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</thead>
<tbody>
<tr>
<td>Science, Grade 6 (03010G0606)</td>
<td>Life Science (03237G0707)</td>
<td>Physical Science (03011G0808)</td>
</tr>
<tr>
<td>Science, Grade 6 Honors (03999HPK06)</td>
<td>Life Science, Honors (03237H0707)</td>
<td>Physical Science, Honors (03011H0808)</td>
</tr>
</tbody>
</table>

**SCIENCE, GRADE 6 (03010G0606)**
Earth Science concentration on the universe and its grand scale in both time and space, processes that drive Earth’s conditions and its continual change over time, society’s interactions with the planet with integration of science and engineering practices.

**SCIENCE, HONORS, GRADE 6 (03999HPK06)**
Advanced work in scientific processes, knowledge, and application; scientific principles, observation, and experimentation in life, physical and earth sciences.

**LIFE SCIENCE, GRADE 7 (03237G0707)**
Life Science concentration on the structure and function of cells and their connections to organs and organ systems; the interactions between living organisms and between biotic and abiotic factors; explanations of genetic variations, results of genetic mutations, and impacts of genetic technologies; and the patterns of change in populations of organisms over a long period of time and the relationship between natural selection and the reproduction and survival of a population with integration of science and engineering practices.

**LIFE SCIENCE, HONORS, GRADE 7 (03237H0707)**
Advanced Life Science concentration on the structure and function of cells and their connections to organs and organ systems; the interactions between living organisms and between biotic and abiotic factors; explanations of genetic variations, results of genetic mutations, and impacts of genetic technologies; and the patterns of change in populations of organisms over a long period of time and the relationship between natural selection and the reproduction and survival of a population with integration of science and engineering practices.

**PHYSICAL SCIENCE, GRADE 8 (03011G0808)**
Scientific process and application skills, atomic structure, matter, bonding, solutions, Newton’s laws, simple machines, energy, waves.

**PHYSICAL SCIENCE, HONORS, GRADE 8 (03011H0808)**
Advanced work in the scientific process and application skills, atomic structure, matter, bonding, solutions, Newton’s laws, simple machines, energy, waves.
<table>
<thead>
<tr>
<th>Social Studies, Grade 6 (04436G0606)</th>
<th>Social Studies, Grade 6, Honors (04497HPK06)</th>
<th>Social Studies, Grade 7 (04161G0707) Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States History from the Industrial Revolution to the present.</td>
<td>Advanced work in the social sciences from the Industrial Revolution to the present.</td>
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</tr>
<tr>
<td>Civics (04161G0707) (semester)</td>
<td>Civics, Honors (04161H0707) (semester)</td>
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<tr>
<td>Geography (04001G0707) (semester)</td>
<td>Geography, Honors (04001H0707) (semester)</td>
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</tr>
<tr>
<td>World History to 1500 (04051G0808)</td>
<td>World History to 1500, Honors (04051H0808)</td>
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</tbody>
</table>
## Art

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<thead>
<tr>
<th>6th Grade</th>
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<th>8th Grade</th>
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</thead>
<tbody>
<tr>
<td>Visual Arts, Grade 6 (05186G0606)</td>
<td>Visual Arts, Grade 7 (05187G0707)</td>
<td>Visual Arts, Grade 8 (05188G0808)</td>
</tr>
</tbody>
</table>

**VISUAL ARTS, GRADE 6 (05186G0606)**
Through creating, producing, and responding, students will explore the elements of art and principles of design by utilizing a variety of traditional media, digital media, and multimedia projects. Students will study works of art to make connections and understand historical relevance, contemporary issues, and self-reflection to their work and the work of others. This course is taught by a certified visual arts teacher.

**VISUAL ARTS, GRADE 7 (05187G0707)**
Through creating, producing, and responding students will compare and relate the elements of art and principles of design by utilizing a variety of traditional media, digital media, and multimedia projects. Emphasis will be placed on independent work and investigation through projects of personal interest. Students will explore techniques, styles, media, methods, and procedures for creating works of visual arts. Students will demonstrate higher technical proficiency while still developing self-confidence and refining motor skills. With guidance students will develop and apply criteria to works of art to make connections and understand historical relevance, contemporary issues, and self-reflection to their work and the work of others. This course is taught by a certified visual arts teacher.

**VISUAL ARTS, GRADE 8 (05188G0808)**
Through creating, producing, and responding to students, will assess and connect the elements of art and principles of design by utilizing a variety of traditional media, digital media, and multimedia projects. Independent work and investigation through projects of personal interest will allow students to demonstrate original works that communicate complex interpretations. Students will explore techniques, styles, media, methods, and procedures for creating works of visual arts. Students will demonstrate higher technical proficiency while still developing self-confidence and refining motor skills. Students will develop and apply criteria to works of art to make connections and understand historical relevance, contemporary issues, and self-reflection to their work and the work of others that relates to global interest and social commentary with personal voice. This course is taught by a certified visual arts teacher.
## Career Readiness

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<th>7th Grade</th>
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<tbody>
<tr>
<td>STEM Technologies I, Grade 7 (21052G0608) (semester)</td>
<td>Career Preparedness-A (02153G1012) (semester)</td>
</tr>
<tr>
<td>STEM Technologies II, Grade 7 (21052G0708) (semester)</td>
<td>STEM Technologies III, Grade 8 (21052G0808) (semester)</td>
</tr>
</tbody>
</table>

### 7th or 8th Grade

Career Cluster Explorations (22151G0608) (semester)

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**STEM TECHNOLOGIES I, GRADE 7 (21052G0608) SEMESTER**  
STEM Technologies I provides students with knowledge and processes needed to begin their attainment of technological literacy and awareness of careers in science, technology, engineering, and mathematics. Students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems in a variety of areas.

**STEM TECHNOLOGIES II, GRADE 7 (21052G0708) SEMESTER**  
STEM Technologies II provides students with knowledge and processes needed to further their attainment of technological literacy and awareness of careers in science, technology, engineering, and mathematics. Students gain skills in the application, design, production, and assessment of products, services, and systems in a variety of areas.

**CAREER CLUSTER EXPLORATIONS (22151G0608) SEMESTER**  
A 70 instructional-hour course designed for students in Grade 7 to explore career opportunities in the 16 clusters and associated pathways. Emphasis is placed on employability and leadership skills.

**CAREER PREPAREDNESS-A, GRADE 8 (22153G0512) SEMESTER**  
A one-half credit course that is taught in grades 8-12. The course prepares students with knowledge and skills in the areas of career development and academic planning and computer skill application. This course is a prerequisite to Career Preparedness-B, which is embedded into 12th grade Economics. The Career Preparedness credit required for graduation will be complete once students successfully complete both Career Preparedness A and Career Preparedness B embedded in twelfth grade Economics.

**STEM TECHNOLOGIES III, GRADE 8 (21052G0808) SEMESTER**  
STEM Technologies III provides students with knowledge and processes needed to extend their attainment of technological literacy and awareness of careers in science, technology, engineering, and mathematics. Students gain skills in the application, design, production, and assessment of products, services, and systems in a variety of areas.
NOTE: The Entertainment Technology Academy is available at Hampton Cove Middle and Huntsville Junior High.

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<th>7th and 8th Grade</th>
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<tbody>
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<td>App Creators - PLTW (10099G1001) (semester)</td>
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<tr>
<td>Computer Science for Innovators and Makers - PLTW (10099G1002) (semester)</td>
</tr>
<tr>
<td>Middle School Evolution of Games (22994X1014) (semester)</td>
</tr>
<tr>
<td>Introduction to Video Game Design (22994X1015) (semester)</td>
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</tbody>
</table>

APP CREATORS - PLTW GRADES 7-8 (10099G1001) SEMESTER
App Creators introduces students to the field of computer science and the concepts of computational thinking, through the creation of mobile apps. Students are challenged to be creative and innovative, as they collaboratively design and develop mobile solutions to engaging, authentic problems. Students experience the positive impact of the application of computer science to society as well as other disciplines, particularly biomedical science.

COMPUTER SCIENCE FOR INNOVATORS AND MAKERS - PLTW, GRADES 7-8 (10099G1002) SEMESTER
Throughout the unit, students will learn about programming for the physical world by blending hardware design and software development, allowing students to discover computer science concepts and skills by creating personally relevant, tangible, and shareable projects.

MIDDLE SCHOOL EVOLUTION OF GAMES, GRADE 8 (22994X1014) SEMESTER
This course explains the elements of game design and how games reflect the social, economic, political, and religious elements of a culture. Students will build game prototypes and playtest games.

INTRODUCTION TO VIDEO GAME DESIGN, GRADE 8 (22994X1015) SEMESTER
Students will explore the math and science of how video games are made.
Music
(Note: Middle School Arts Courses are non-bearing credit courses.)

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<th>6th – 8th Grades</th>
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<tbody>
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<td>Music (Band), Grade 6 (05136G0606)</td>
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<tr>
<td>Music (Band II), Grade 7 (05137G0707)</td>
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<tr>
<td>Music (Band III), Grade 8 (05138G0808)</td>
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</tbody>
</table>

**MUSIC (BAND), GRADE 6 (05136G0606)**

Students will engage, through criteria set by the teacher, in meaningful and purposeful music-making within the four Artistic Processes; creating music (improvising, composing, arranging); performing music (singing or with instruments); responding to music (listening to and analyzing); connecting music learning and experiences to the larger curriculum, other cultures and disciplines within and outside of the arts. In doing so, students will experience the following concepts of music: rhythm, melody, form, timbre, harmony, and expression; taught by a certified music teacher.

**MUSIC (BAND II), GRADE 7 (05137G0707)**

Students will engage, through criteria set in collaboration with the teacher, in meaningful and purposeful music-making within the four Artistic Processes; creating music (improvising, composing, arranging); performing music (singing or with instruments); responding to music (listening to and analyzing); connecting music learning and experiences to the larger curriculum, other cultures and disciplines within and outside of the arts. In doing so, students will experience the following concepts of music: rhythm, melody, form, timbre, texture and harmony, style, and expression; taught by a certified music teacher.

**MUSIC (BAND III), GRADE 8 (05138G0808)**

Students will engage, through self-informed, personally developed criteria, in meaningful and purposeful music-making within the four Artistic Processes; creating music (improvising, composing, arranging); performing music (singing or with instruments); responding to music (listening to and analyzing); connecting music learning and experiences to the larger curriculum, other cultures and disciplines within and outside of the arts. In doing so, students will experience the following concepts of music: rhythm, melody, form, timbre, texture and harmony, style, unity and variety, tension and release, balance, and expression; taught by a certified music teacher.

**CHAMBER CHORUS I (05111G10C1)**

Designed for beginning music students to explore choral music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will develop basic vocal skills and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issues, and self-reflection. This course is designed for a small ensemble, such as Madrigals or Chamber Choir.

**CHAMBER CHORUS II (05111G10C2)**

Designed for students with at least one year of experience, to continue to explore choral music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will continue to develop basic vocal skills and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issues, and self-reflection. This course is designed for a small ensemble, such as Madrigals or Chamber Choir.
CHAMBER CHORUS III (05111G10C3)
Designed for students to increase artistry by exploring choral music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will continue to develop vocal skills and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issues, and self-reflection. This course is designed for a small ensemble, such as Madrigals or Chamber Choir.

Peer Helper

PEER HELPER, GRADES 7-8 (22107X1000)
Supervised tutoring services are offered by students.

Physical Education

PHYSICAL EDUCATION, GRADE 6 (08036G0606)
Refinement of fundamental motor skills integrated with a variety of movement concepts taught by a certified physical education specialist.

PHYSICAL EDUCATION, GRADE 7 (08037G0708)
PHYSICAL EDUCATION, GRADE 8 (08037G0708)
Skill execution as opposed to the acquisition of skills which are integrated into games, sports, rhythms, and gymnastics.
NOTE: The PLTW courses listed below are available to 7th and 8th grade students at all HCS middle grades schools.

**DESIGN AND MODELING - PLTW (21007G0708) SEMESTER**

**Grade(s):** 7-8 only  
**Prerequisite(s):** None  
A one-half credit course that uses solid modeling as part of the design process. Students learn sketching techniques; use descriptive geometry as a component of design, measurement, and computer modeling; and develop ideas, create models, test and evaluate design ideas, and communicate solutions.

**AUTOMATION AND ROBOTICS - PLTW (21009G0708) SEMESTER**

**Grade(s):** 7-8 only  
**Prerequisite(s):** None  
A one-half credit course that provides opportunities for students to trace the history, development, and influence of automation and robotics. Emphasis is placed on mechanical systems, energy transfer, machine automation, and computer control systems.

**FLIGHT AND SPACE - PLTW (21019G0708) SEMESTER**

**Grade(s):** 7-8 only  
**Prerequisite(s):** Design and Modeling PLTW  
A one-half credit course where students study the history of aerospace through hands-on activities and research. Students explore the science of aeronautics and use this knowledge to design, build, and test a model glider.

**MEDICAL DETECTIVES - PLTW (14001G0608) SEMESTER**

**Grade(s):** 7-8 only  
**Prerequisite(s):** Design and Modeling PLTW  
Medical Detectives (MD) explore the biomedical sciences through hands-on projects and labs that require students to solve a variety of medical mysteries. Students investigate medical careers, vital signs, diagnosis, and treatment of diseases, as well as human body systems such as the nervous system. Genetic testing for hereditary diseases and DNA crime scene analysis put the students in the place of real-life medical detectives.

**APP CREATORS - PLTW (10099G1001) SEMESTER**

**Grade(s):** 7-8 only  
**Prerequisite(s):** None  
App Creators introduces students to the field of computer science and the concepts of computational thinking, through the creation of mobile apps. Students are challenged to be creative and innovative, as they collaboratively design and develop mobile solutions to engaging, authentic problems. Students experience the positive impact of the application of computer science to society as well as other disciplines, particularly biomedical science.
Computer Science for Innovators and Makers teaches students that programming goes beyond the virtual world into the physical world. Students are challenged to creatively use sensors and actuators to develop systems that interact with their environment. Designing algorithms and using computational thinking practices, they code and upload programs to microcontrollers that perform a variety of authentic tasks. Students’ understanding of computer science concepts through meaningful applications will be broadened. Teams select and solve a personally relevant problem related to wearable technology, interactive art, or mechanical devices.
# Additional Electives

## 8th Grade
- Introduction to Cyber Security (10020G0808)
- Video Production (22994X1010)

## 7th - 8th Grades
- Computer Science Discoveries (10012G1000)
- CS Makers (10013G0808)
- Introduction to Web Page Design (22994X1011)
- School Publications (11104X1000)
- Service Learning (23992X1006) (semester)
- Student Aide (22051X1000)
- Introduction to Greenpower (21105G0708) *
- Greenpower Intermediate (19299G0808) *
- Project Based Learning Using History (23992X1007) *
- The Game of Life (22994X1012) (semester)*
- The Game of Life II (22994X1013) (semester)*

*Location of schools where courses are offered is listed with course description.

## COMPUTER SCIENCE DISCOVERIES, GRADES 7-8 (10012G1000)
Computer Science Discoveries is a full-year introductory computer science survey course for students in Grades 7-8. The course takes a wide lens on computer science by covering topics such as programming, physical computing, HTML/CSS, and data. Students are empowered to create authentic artifacts and engage with CS as a medium for creativity, communication, problem solving, and fun.

## CS MAKERS, GRADE 8 (10013G0808)
CS Makers is a 70-hour stand-alone Computer Science course designed for students in Grade 8 that focuses on foundational Computer Science concepts, computational practices, and making things from software and computer hardware. The goal of CS Makers is to engage students in the computational practices of algorithm development, problem solving, and computer programming activities within the context of problems that are relevant to the lives of Alabama students. Students will design and create computational artifacts in a CS makerspace while exploring human/computer partnerships, digital citizenship, and the role of computers in society. Students will learn how to design items, develop algorithms, and create computer programs.

## INTRODUCTION TO CYBER SECURITY, GRADE 8 (10020G0808)
A year long course which includes an overview of computer technologies, careers, and cyber ethics. Students will be introduced to computer terminology and hardware as well as digital numbering systems and networking.

## INTRODUCTION TO WEB PAGE DESIGN, GRADES 7-8 (22994X1011)
Teaches students how web pages are designed, and the programs used to create them. Students will set up their own webpage for the class as well as maintaining the school web page adding video and picture content from various sources.
SCHOOL PUBLICATIONS, GRADES 6-8 (11104X1000)
Assisting in production/maintenance of school publications, e.g., Yearbook, Newspaper, E-papers, Web site maintenance, Newsletter.

SERVICE LEARNING, GRADES 7-8 (23992X1006) SEMESTER
Enhanced learning activities focused on service learning

VIDEO PRODUCTION, GRADE 8 (22994X1010)
Teaches the elements and principles of design. Students will learn the art of video production by exploring how a news studio operates. Students will plan news stories, cover school news, edit their video recordings to increase production value, and then broadcast their news stories.

INTRODUCTION TO GREENPOWER, GRADES 7-8 (21105G0708) *
Location(s) Offered: Challenger, McNair, Mountain Gap, and Whitesburg only
Introduction to Greenpower is a course for students in Grades 7-8. This course provides an introduction to design software and provides students with real-world industry relevant, and multi-disciplinary engineering and manufacturing skills. Students design, build, and race an electric car while learning leadership and collaboration skills within a competitive environment.

GREENPOWER INTERMEDIATE, GRADE 8 (19299G0808) *
Location(s) Offered: Challenger, McNair, Mountain Gap, and Whitesburg only
This course is for second year Greenpower students. The Greenpower courses introduce design software and provides students with real-world industry relevant, and multi-disciplinary engineering and manufacturing skills. Students design, build, and race an electric car while learning leadership and collaboration skills within a competitive environment.

PROJECT BASED LEARNING USING HISTORY, GRADES 7-8 (23992X1007) *
Location(s) Offered: Hampton Cove Middle and Huntsville Junior High
Students will use the National History Day NHD) model to research, write and defend arguments, and create a final project on a topic of their choice. Students will compete at the local level, with the opportunity to move to state and national levels. In addition to the NHD competition, students will do research and presentations on multiple topics selected based on student historical interests.

STUDENT AIDE (OFFICE, LIBRARY, GUIDANCE ONLY), GRADE 7-8 (22051X1000)
Students develop leadership skills while assisting staff in the main office, guidance office, or library.

THE GAME OF LIFE, GRADES 7-8 (22994X1012) SEMESTER
Location(s) Offered: Challenger Middle, Hampton Cove, and Huntsville Junior High
This is an enrichment class for students to learn and practice their skills for life. Course content will include engaging in hands-on activities that teens will use as they prepare for high school and beyond. Subject areas include healthy foods and good nutrition, money management skills, leadership skills, personal skills, social media skills, clothing skills, job skills and consumer skills. During the semester, each class will select, research, and carry out a Service-Learning Project.

THE GAME OF LIFE II, GRADES 7-8 (22994X1013) SEMESTER
Location(s) Offered: Challenger Middle, Hampton Cove, and Huntsville Junior High
This class builds on skills students became an expert in during The Game of Life. Course content provides opportunities for students to explore personal development, nutrition and food preparation, career exploration, childcare, basic sewing skills, money management, teen consumer decisions, service learning, social media, and cyber safety. Laboratory experiences with hands-on activities such as Chef for a Day, Real Care Baby simulation, and guest speakers are important components of the class.
Magnet Programs Course Descriptions

Middle School Magnet Programs within Huntsville City Schools offer students and families a choice of a variety of unique theme-based courses that engage students in hands-on experiences and prepare students for the high school setting. Course offerings and instruction provided is theme-based, advanced, and relevant. Students are encouraged to apply for a magnet program that fits their interests.

The Academy for Academics and Arts Magnet Program infuses arts education opportunities with core academic courses daily. Students explore disciplines such as creative writing, dance, music, theatre, and art. AAA is the longest standing magnet school in Huntsville.

The Academy for Science and Foreign Language is a National Blue-Ribbon School that also has the distinction of being an Authorized International Baccalaureate School. ASFL engages students in foreign language and a variety of science “strand” opportunities daily. The focus on foreign language and science goes beyond the normal school day by student participation in a variety of clubs and competitions.

The Academy for Gifted and Talented program is a magnet program within Williams Middle School. Students enrolled in this program are gifted identified and participate in all honors/advanced courses. To develop the talent of gifted students, AGT offers a unique STEAM course that infuses visual arts with technology, engineering, and additional science concepts.

Magnet programs accept student enrollment based on a selection process. All students must apply online, offered a seat, and accept that seat in order to enroll. Applications can be found on the Huntsville City Schools website during a specified time of the year.
Exploratory Arts Courses

Students participating in the AAA Magnet Program are eligible to participate in all middle school electives, however students will also participate in magnet courses listed below.

(Note: Middle School Arts Courses are non-bearing credit courses.)

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<tr>
<th>6th Grade</th>
<th>7th Grade</th>
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<tr>
<td><strong>Writing</strong></td>
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<tr>
<td>Grade 6- Creative Writing</td>
<td>Journalism I</td>
<td>Creative Writing, Grade 8</td>
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<tr>
<td>(22994X1050)</td>
<td>(11101G1013)</td>
<td>(01104G0808)</td>
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<tr>
<td><strong>Exploration of Dance</strong></td>
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<td>Dance, Grade 6</td>
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<td>(05999GPK06)</td>
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<td>Dance Elective: Grade 6</td>
<td>Dance Elective: Grades 7-8</td>
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<tr>
<td><strong>Vocal and Instrumental Performance</strong></td>
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<td>Orchestra I, Grade 6</td>
<td>Orchestra II, Grade 7</td>
<td>Orchestra, III, Grade 8</td>
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<td>Mixed Chorus II</td>
<td>Mixed Chorus III</td>
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<td>Arts Elective: Clowns, Grade 6</td>
<td>Arts Elective: Stars, Grade 7-8</td>
<td>Arts Elective: Stars, Grade 7-8</td>
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<td>(05999GPK06)</td>
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<td>Theatre, Grade 6</td>
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<td>Technical Theatre, Grade 6</td>
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<td>Technical Theatre, Grade 8</td>
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<td>Visual Art (Painting), Grade 7</td>
<td>Visual Art (Painting), Grade 8</td>
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<td>Media Arts Grade 7- Photography</td>
<td>Media Arts Grade 8- Photography and 2D-3D Art</td>
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GRADE 6- CREATIVE WRITING (22994X1050)
Opportunity for a student to explore a new interest in a supervised activity.
This course introduces young writers to the basic elements of each genre, focusing on poetry and fiction.

JOURNALISM I (11101G1013)
Newspaper study; newspaper production; news information gathering; proofreading; journalistic writing
Classroom work includes voluminous reading, writing original poetry and prose, individual conferences with
instructor after close readings and analyses of original work and classroom discussion groups that both
encourage and support the creative process.

JOURNALISM ELECTIVE (11149G1001)
Local Journalism elective course developed at a local level.
This is a select course for serious student writers. Students are expected to grow as writers and readers as they
move through the curriculum, developing, and polishing their craft from semester to semester. Students have the
opportunity to prepare a portfolio of original work and to publish it for outside audiences.

CREATIVE WRITING, GRADE 8 (01104G0808)
NOTE: THIS COURSE DOES NOT REPLACE ENGLISH 8.
Creative Writing Grade 8 is a full-year course which offers the emerging writer a framework through which
he/she can develop his/her literary talents. The course will guide the student through an exploration of different
literary genres and offer a plethora of activities that will result in the practice of the craft of writing through the
creation of both fiction and non-fiction writing samples. Writing assignments are age appropriate for middle
school students.

JOURNALISM 2 (11101G1023)
Advanced newspaper work; laboratory course; layout, in-depth editing, publishing, finance

DANCE, GRADE 6 (05999GPK06)
Students begin to develop artistic intent and artistic criteria to revise dance compositions, while increasing their
technical skills using the elements of dance to enhance the performance experience. Students also use a variety
of research methods to investigate social topics as themes for dance compositions. Basic anatomical knowledge
and performance etiquette along with intentional artistic intent increase performance quality and safety.
Students continue to develop cultural understandings and contexts through responding and connecting.

DANCE, GRADE 7 (05037G0707)
Students develop choreography using a variety of prompts and source materials. They are expected to use
codified movement vocabularies to express artistic intent, while explaining movement choices using genre-
specific dance terminology. Students interpret knowledge of human anatomy, healthful practices, and sound
nutrition to understand physical development stages and technical skills. Documenting, reviewing, and revising
choreography are used as tools for refining work. Increasing exposure to master works as well as exposure to a
variety of genres and cultural dance forms increases ability to respond and connect.

DANCE, GRADE 8 (05038G0808)
Students develop collaboration skills through working with peers to choreograph original dances. They explore
various methods of documentation, evaluate work, and apply feedback in order to develop self-reflection and
evaluation tools. Personal movement choices and personal perspective are emphasized during responding and
connecting. Musicality and phrasing, the ability to replicate, recall, and execute choreography, and a clarity of
alignment, coordination, balance, and core support refines technique.
DANCE ELECTIVE:  GRADE 6 (2294X100203)  
GRADE 7 (2294X100204)  
GRADE 8 (2294X100205)  
Locally developed course based on student interests and school theme/focus.

ARTS ELECTIVE: CLOWNS, GRADE 6 (05999GPK06)  
This is a select performance group who travel and perform as Academy ambassadors. Students learn the responsibility and dedication needed to work in performance careers and learn to communicate to various audiences through song and dance.

THEATRE, GRADE 6 (05076G0606)  
Students will transition from dramatic play and exploration into more academic theatre work. Continued emphasis is placed on creating, producing, responding, and connecting to drive age-appropriate critical thinking, meaning, reflection, production, and assessment. Students begin to explore the vocal, kinesthetic, emotional, analytical, and intellectual elements of theatrical training through improvisation, dramatization, process-centered elements of dramatic performance, aesthetics, criticism, and history. Students begin to examine theatre genres and styles, broaden theatre vocabulary, and respond to productions by communicating thoughts and feelings, explaining concepts of aesthetics, and evaluating artistic choices.

TECHNICAL THEATRE,  GRADE 6 (23992X1063)  
GRADE 7 (23992X1064)  
GRADE 8 (23992X1065)  
Locally developed course that focuses on basic technical theatre skills, vocabulary, safety, and analyzing theatrical literature. Students will be able to identify basic building tools and techniques. The class will begin learning design rules and application that create effective/impactful theatrical work.

ARTS ELECTIVE: STARS, GRADE 7 (22994X1022)  
This is a select performance group who travel and perform as Academy ambassadors. Students learn the responsibility and dedication needed to work in performance careers and learn to communicate to various audiences through song and dance.

THEATRE, GRADE 7 (05077G0707)  
Academic theatre work will be explored more deeply. A strong emphasis is placed on creating, producing, responding, and connecting to drive age-appropriate critical thinking, meaning, reflection, production, and assessment. Students develop techniques built upon foundations of vocal, kinesthetic, emotional, analytical, and intellectual elements of theatrical training through improvisation, dramatization, process-centered elements of dramatic performance, aesthetics, criticism, and history. Students will increase collaboration by exploring multiple perspectives and approaches and begin to connect the relevance of theatre to themselves and their community. Students continue to deepen understanding of dramatic structure, production, performance, concepts, artistic choices, and cultural components of theatre.

ARTS ELECTIVE: STARS, GRADE 8 (22994X1002)  
This is a select performance group who travel and perform as Academy ambassadors. Students learn the responsibility and dedication needed to work in performance careers and learn to communicate to various audiences through song and dance.
THEATRE, GRADE 8 (05078G0808)
Academic theatre work will be explored more deeply. A stronger emphasis is placed on creating, producing, responding, and connecting to drive age-appropriate critical thinking, meaning, reflection, production, and assessment. Students develop techniques built upon foundations of vocal, kinesthetic, emotional, analytical, and intellectual elements of theatrical training through improvisation, dramatization, process-centered elements of dramatic performance, aesthetics, criticism, and history. Student will refine collaboration by exploring multiple perspectives and approaches and begin to connect the relevance of theatre to themselves and their community. Students refine an understanding of dramatic structure, production, performance, concepts, artistic choices, and cultural components of theatre. Students begin to examine leadership, responsibility, critical analysis, and research. Students focus on the implementation of original ideas through refined choices and consider more diverse social, cultural, and global perspectives and issues.

THEATRE ELECTIVE: THESPians, GRADE 7 (22994X1006) GRADE 8 (22994X1007)
Locally developed course focusing on advanced acting skills, vocabulary and analyzing theatrical literature. Students must have taken Theatre and in another theater class along with this course.

VISUAL ART (PAINTING), GRADE 6, (05186G0606)
Through creating, producing, and responding, students will explore the elements of art and principles of design by utilizing a variety of traditional media, digital media, and multimedia projects. Students will study works of art to make connections and understand historical relevance, contemporary issues, and self-reflection to their work and the work of others. This course is taught by a certified visual arts teacher.

MEDIA ARTS, GRADE 6 (05169G0606)
This course, through available and digital media technology, allows students to engage in the creative process to produce meaningful media art products. Use of prior skills demonstrates an ability to engage in complex and independent thoughts, while focus is placed on how people relate to and interpret media arts products. Creating, producing, responding, and connecting drive critical thinking, meaning, reflection, production, and assessment to understand how technology helps to communicate ideas and to make connections to the world and art. Media arts history, ethics and appropriate use of materials are covered.

VISUAL ART (PAINTING), GRADE 7 (05187G0707)
Through creating, producing, and responding students will compare and relate the elements of art and principles of design by utilizing a variety of traditional media, digital media, and multimedia projects. Emphasis will be placed on independent work and investigation through projects of personal interest. Students will explore techniques, styles, media, methods, and procedures for creating works of visual arts. Students will demonstrate higher technical proficiency while still developing confidence and refining motor skills. With guidance students will develop and apply criteria to works of art to make connections and understand historical relevance, contemporary issues, and self-reflection to their work and the work of others. This course is taught by a certified visual arts teacher.

MEDIA ARTS GRADE 7- PHOTOGRAPHY (05169G0707)
This course, through available and digital media technology, allows students to engage in the creative process to produce meaningful media art products. Use of prior skills demonstrates analytical and introspective self-reflection and expression as an outlet for developing media arts productions. Assessment and revision are applied to complex, abstract, and independent thoughts of media arts productions. Students will make informed judgments about quality and improvement of media artworks to make informed conclusions on how people relate to and interpret these works. Creating, producing, responding, and connecting drive critical thinking, meaning, reflection, production, and assessment to understand how technology helps to communicate ideas and to make connections to the world and art. Media arts history, ethics and appropriate use of materials are covered.
VISUAL ART (PAINTING), GRADE 8 (05188G0808)
Through creating, producing, and responding students, will assess and connect the elements of art and principles of design by utilizing a variety of traditional media, digital media, and multimedia projects. Independent work and investigation through projects of personal interest will allow students to demonstrate original works that communicate complex interpretations. Students will explore techniques, styles, media, methods, and procedures for creating works of visual arts. Students will demonstrate higher technical proficiency while still developing self-confidence and refining motor skills. Students will develop and apply criteria to works of art to make connections and understand historical relevance, contemporary issues, and self-reflection to their work and the work of others that relates to global interest and social commentary with personal voice. This course is taught by a certified visual arts teacher.

MEDIA ARTS GRADE 8- PHOTOGRAPHY AND 2D-3D ART (05169G0808)
This course, through available and digital media technology, allows students to engage in the creative process to produce meaningful media art products. Use of prior skills demonstrates analytical and introspective self-reflection and expression as an outlet for developing media arts productions. Assessment and revision are made to complex, abstract, and independent thoughts of media arts productions and then applied to communicate independent thoughts through productions, orally and in writing. Students will assess and connect judgments about the quality of media artworks productions to how people relate to and experience these works. Creating, producing, responding, and connecting drive critical thinking, meaning, reflection, production, and assessment to understand how technology helps to communicate ideas and to make connections to the world and art. Media arts history, ethics and appropriate use of materials are covered.

ORCHESTRA I, GRADE 6 (05104G1001)
Designed for beginning music students to experience instrumental music in a setting of only orchestra instruments. Students will develop a characteristic tone and engage in the processes of creating, performing, and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of orchestral music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

ORCHESTRA II, GRADE 7 (05104G1002)
Designed for students to experience instrumental music in a setting of only orchestra instruments. Students will develop a characteristic tone and engage in the processes of creating, performing, and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of orchestral literature and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

ORCHESTRA III, GRADE 8 (05104G1003)
Designed for students to increase artistry through reinforced experiences in an instrumental music setting of only orchestra instruments. Students will continue to develop a characteristic tone and engage in the processes of creating, performing, and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form, and expression. Students will study works of orchestral music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

MIXED CHORUS I (05110G1001)
Designed for beginning music students to explore choral music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will develop basic vocal skills and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection.
MIXED CHORUS II (05110G1002)
Designed for students with at least one year of experience to continue to explore choral music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will continue to develop basic vocal skills and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection.

SHOW CHOIR (05121G1001)
Designed for beginning music students to explore popular music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will develop basic vocal skills, choreography and movement and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these popular vocal style experiences to historical relevance, contemporary issue, and self-reflection.

MIXED CHORUS III (05110G1003)
Designed for students to increase artistry by exploring choral music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will continue to develop vocal skills and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection.

SHOW CHOIR II (05121G1002)
Designed for students with at least one year of experience to continue to explore popular music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will continue to develop basic vocal skills, choreography and movement and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these popular vocal style experiences to historical relevance, contemporary issue, and self-reflection.
Students participating in the ASFL Magnet Program are eligible to participate in all middle school electives, however students will also participate in magnet courses listed below.

*(Note: Middle School Science and Foreign Language Courses are non-bearing credit courses.)*

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<tr>
<th>6th Grade</th>
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<tr>
<td>French</td>
<td>French Exploratory, Grade 7</td>
<td>French I</td>
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<tr>
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<tr>
<td>Astronomy &amp; Geology</td>
<td>Botanical Science (22994X1083)</td>
<td>Interaction with Elements (22994X1085)</td>
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<tr>
<td>(22994X1081)</td>
<td>Introduction to Animal Studies</td>
<td>The Study of Matter <em>(formerly known as Matter in Motion)</em></td>
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<td>(Zoology &amp; Dissection) (22994X1084)</td>
<td>(22994X1086)</td>
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<tr>
<td>Exploration of Scientific Disciplines: Earth Science, Biology, Chemistry, Physics and Engineering <em>(formerly known as: Science Explorers)</em></td>
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<td>Robotics (22994X1009)</td>
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**ASTRONOMY & GEOLOGY, GRADE 6 (22994X1081)**
Astronomy & Geology pairs with sixth grade Earth and Space Science. This course provides students with additional exposure to topics covered in science arranged around the National Science Education Standards. Students will complete units devoted to planetology, weather, and the Solar System. Students will also engage in rigorous engineering design challenges developed by NASA. This course addresses AdvancED® STEM Standards ST1.2, ST1.4, & ST1.10.

**EXPLORATION OF SCIENTIFIC DISCIPLINES: EARTH SCIENCE, BIOLOGY, CHEMISTRY, PHYSICS AND ENGINEERING *(FORMERLY KNOWN AS: SCIENCE EXPLORERS)*, GRADE 6 (22994X1082) SEMESTER**
In Science Explorers, students will participate in hands-on standard-aligned STEM content designed to promote student teamwork, problem solving, and collaboration. Activities and units will be organized around the aims and objectives of Science Olympiad. Students will participate and complete in various challenges such as Water Quality Analysis, Elastic Launch Gliders, and Circuit Lab.
BOTANICAL SCIENCE, GRADE 7 (22994X1083) SEMESTER
In this semester course, which pairs with seventh grade Life Science, students take a hands-on approach to identify and describe native and invasive species of plants inhabiting North America. Opportunities include using taxonomical keys for plant identification and observing plants in their natural habitats. Students will learn the parts of many types of plants including flowers, and other vascular and non-vascular plants. Students will participate in plant dissections and shading projects for plant collection and participate in cultivating areas around the school. Students will participate in research and visit the Botanical Gardens as a culminating activity.

INTRODUCTION TO ANIMAL STUDIES: ZOOLOGY AND DISSECTION, GRADE 7 (22994X1084) SEMESTER
In this semester course, the study of animals and their life cycles and habitats are the primary focus of this course. Students participate in several dissections of animals to explore the internal and external anatomy. Students also participate in farming projects that allow them to see the life cycles of different animals. Observations are made about the importance of preserving animal habitats and keystone species.

INTERACTION WITH THE ELEMENTS, GRADE 8, (22994X1085) SEMESTER
This will be a semester long course that pairs with eighth grade Physical Science and includes hands-on labs and activities pertaining to chemistry. With chemistry being the study of matter; understanding that all matter is made of atoms than can combine to create new matter under the right conditions. Examples of labs or activities include but may not be limited to marshmallow atoms and molecules, investigating pH through acids and bases, solubility, states of matter phase changes, fun with the periodic table, identifying elements, compounds or mixtures, and bubble gum lab. While great for anyone, this course is meant to supplement the chemistry unit of the physical science curriculum.

FUTURE CITY, GRADES 7-8 (22994X1008)
Specialized science processes; scientific principles and knowledge; and skills, application, and experimentation in life, physical, and earth sciences.

THE STUDY OF MATTER (FORMERLY KNOWN AS MATTER IN MOTION), GRADE 8 (22994X1086) SEMESTER
This will be a semester long course which pairs with Physical Science, Grade 8. This course includes hands-on labs and activities pertaining to physics. With physics being the study of matter and its motion through space and time, along with related concepts such as energy and force. Examples of labs or activities include but may not be limited to roller coasters, airplanes, rockets, Jell-O box cars, Rube Goldberg machines, Barbie drop, relays to graph, wave on a string, fun with lights with prisms and mirrors.

ROBOTICS, GRADE 7-8 (22994X1009)
A which includes designing, building, and controlling a robot which will complete several tasks during competition such as manipulating a button or pushing a ball. Students enjoy extra instructional support and practice in this class since it meets during the school day but also after school. Students participate in either the BEST Robotics Competition or the First Lego League Robotics Competition. This course addresses AdvancED® STEM Standards ST1.2, ST1.3, ST1.4 & ST1.5.
**World Languages**

*Students will study the same world language for all years 6th-8th grade.*

**FRENCH, GRADE 6 (24100G0606)**  
**FRENCH EXPLORATORY, GRADE 7 (24100G0707)**  
**FRENCH I (24102G1000)**  
Listening, speaking, reading, and writing skills involving familiar topics; understanding and responding to simple expressions; writing using learned vocabulary; introduction to French-speaking cultures.

**SPANISH, GRADE 6 (24050G0606)**  
**SPANISH EXPLORATORY, GRADE 7 (24050G0707)**  
**SPANISH I (24052G1000)**  
Listening, speaking, reading, and writing skills involving familiar topics; understanding and responding to simple expressions; writing using learned vocabulary; introduction to Spanish-speaking cultures.
### STEAM I, GRADE 6 (22994X1087)
In this Problem-Based Learning class, gifted students will create large-scale projects in response to needs and problems as identified by the students themselves. Projects are interest-based, technology-infused, standards-embedded, and student-driven. Employing the design process, students construct their own learning with teacher as facilitator. Project products are displayed at AGT's Learning Showcase. Through the design process, students develop the critical thinking, problem-solving, and communication skills necessary in real world situations.

### STEAM II, GRADE 7 (22994X1088)
In this Project-Based Learning class, gifted students will create large-scale projects within an innovative learning environment that addresses each of the Science, Technology, Engineering, Arts, and Mathematics domains. Biomedical Science is emphasized in seventh grade STEAM. Student projects are developed in response to needs and problems as identified by the students themselves and are interest-based, technology-infused, standards-embedded, and student-driven. Students also apply practical and creative thinking skills to solve real-world problems within the STEM environment and explore the role of design in both historical and contemporary contexts. Employing the design process, students construct their own learning with teacher as facilitator. Project products are displayed at AGT's Learning Showcase. Through the design process, students develop the critical thinking, problem-solving, and communication skills necessary in real world situations.

<table>
<thead>
<tr>
<th>6th Grade</th>
<th>7th Grade</th>
<th>8th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEAM I, Grade 6 (22994X1087)</td>
<td>STEAM II, Grade 7 (22994X1088)</td>
<td>STEAM III, Grade 8 (22994X1089)</td>
</tr>
<tr>
<td>AGT Spanish (24050G0606)</td>
<td>AGT Spanish Exploratory, Grade 7 (24050G0707)</td>
<td>Spanish Exploratory, Grade 8 (24050G0808)</td>
</tr>
<tr>
<td>AGT English Language Arts, Honors, Grade 6 (01068GPK06)</td>
<td>AGT English Language Arts, Honors, Grade 7 (01035H0707)</td>
<td>AGT English Language Arts, Honors, Grade 8 (01036H0808)</td>
</tr>
<tr>
<td>AGT Math 6, Honors (02999HPK06)</td>
<td>AGT Math 7, Accelerated (02037H0707)</td>
<td>AGT Math 8, Accelerated (02038H0808)</td>
</tr>
<tr>
<td>AGT Science, Honors, Grade 6 (03999HPK06)</td>
<td>AGT Life Science 7, Honors (03237H0707)</td>
<td>AGT Physical Science 8, Honors (03011H0808)</td>
</tr>
<tr>
<td>AGT Social Studies, Honors, Grade 6 (04497HPK06)</td>
<td>AGT Civics, Honors, Grade 7 (04161H0707) (semester)</td>
<td>AGT World History to 1500, Honors, Grade 8 (04051H0808)</td>
</tr>
<tr>
<td>AGT Geography, Honors, Grade 7 (04001H0707) (semester)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
STEAM III, GRADE 8 (22994X1089)
In this Project-Based Learning class, gifted students will create large-scale projects within an innovative learning environment that addresses each of the Science, Technology, Engineering, Arts, and Mathematics domains. Engineering is emphasized in eighth grade STEAM. Student projects are developed in response to needs and problems as identified by the students themselves and are interest-based, technology-infused, standards-embedded, and student-driven. This Shared Inquiry Seminar is a course in which the content and product(s) are designed and driven by the students and guided by the AGT teacher. The curriculum is designed to be highly challenging and based on the development of the students' interests, aptitudes, and strengths. Project products are displayed at AGT's Learning Showcase. Through the design process, students develop the critical thinking, problem-solving, and communication skills necessary in real world situations.

AGT SPANISH, GRADE 6 (24050G0606)
AGT SPANISH EXPLORATORY, GRADE 7 (24050G0707)
AGT SPANISH EXPLORATORY, GRADE 8 (24050G0808)
Listening, speaking, reading, and writing skills involving familiar topics; understanding and responding to simple expressions; writing using learned vocabulary; introduction to Spanish-speaking cultures. Spanish is required to be taken by each student each year in grades 6-8.

ENGLISH LANGUAGE ARTS, HONORS, GRADE 6 (01068GPK06)
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity with grade-level standards to include reading literature, reading informational text, writing, speaking and listening, and language; capitalization, punctuation, spelling, and vocabulary. Students demonstrate increasing sophistication in all aspects of language use. A variety of literature and informational texts serve as models to improve writing skills. Students actively seek to understand other perspectives and cultures through reading and listening. Technology is used thoughtfully to enhance reading, writing, speaking, listening, and language use.

ENGLISH LANGUAGE ARTS, HONORS, GRADE 7, HONORS (01035H0707)
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity in reading literature, reading informational text, writing, speaking, and listening, and language. This course is designed to build on knowledge and skills acquired in earlier grades but in more sophisticated ways such as mastering the language, structure, and rhetoric of text; completing more complex writing assignments; reading and analyzing a range of literary and informational discourse, both classic and contemporary; delivering more extensive oral presentations; and participating in a variety of conversations and collaborations with peers. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society.

ENGLISH LANGUAGE ARTS, HONORS, GRADE 8, HONORS (01036H0808)
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity in reading literature, reading informational text, writing, speaking and listening, and language. This course focuses on traditional (e.g., argument, persuasion, expository), technical, and creative modes of composition. Through the study of themes found universally in global text, both literary and informational, instruction emphasizes not only critical analysis of text, but also writers’ historical, philosophical, cultural, and ethical perspectives. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society.

AGT MATH 6, HONORS (02999HPK06)
Advanced work in mathematical computation, problem solving skills, and other mathematical concepts.
AGT MATH 7, ACCELERATED (02037H0707)
The Grade 7 Accelerated Mathematics course has been carefully aligned and designed for middle school students who show particular motivation and interest in mathematics. Grade 7 Accelerated Mathematics includes standards from Grade 7 Mathematics and incorporates standards from Grade 8 Mathematics and Algebra I with Probability. Students who complete this class are eligible to enroll in Grade 8 Accelerated Mathematics or Grade 8 Mathematics. Students who complete both Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics are considered to have met the requirements of and may opt to omit the Algebra I with Probability course in their high school mathematics progression to enroll in additional mathematics courses after completing the required Algebra II with Statistics course.

AGT MATHEMATICS, GRADE 8 ACCELERATED (02038H0808)
The Grade 8 Accelerated course has been carefully aligned and designed for middle school students who have completed the Grade 7 Accelerated course and show particular motivation and interest in mathematics. Grade 8 Accelerated contains four content areas: Number Systems and Operations; Algebra and Functions; Data Analysis, Statistics, and Probability; and Geometry and Measurement. The algebra focus is on quadratic relationships. Students who successfully complete this course will be prepared to enter Geometry with Data Analysis in Grade 9 and then accelerate directly into Algebra II with Statistics in Grade 10, thus providing them with an opportunity to take additional, specialized mathematics coursework, such as AP Calculus or AP Statistics, in Grades 11 and 12.

AGT SCIENCE 6, HONORS (03999HPK06)
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity in scientific processes, knowledge, and application; scientific principles, observation, and experimentation in life, physical, and earth sciences. Students will use scientific processes, protocols, and tools, including inquiry, to build understanding of Earth’s structure and place in the Solar System, atmospheric processes, and composition of matter. Critical thinking, collaboration, accuracy, and communication skills will be practiced as students extend their scientific literacy.

AGT LIFE SCIENCE 7, HONORS (03237H0707)
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity the scientific process and application skills, characteristics of living things; cells; body systems; classification; photosynthesis; cellular respiration; change over time; ecology; genetics. Students will use scientific inquiry, problem solving, and critical thinking. Students will apply knowledge and reinforce concepts with real world applications that build critical thinking and reinforce skills to develop an understanding of environmental issues, change, cycles, patterns, and relationships in the living world. Students will build on these basic principles by exploring the cellular organization and classification of organisms; relationships among organisms within the environment and change because of genetic information. Experimental inquiry, math, content specific reading, writing, and technology skills are integrated into the curriculum to provide a deep understanding of science and prepare students for the rapidly changing future.

AGT PHYSICAL SCIENCE 8, HONORS (03011H0808)
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity in the scientific process and application skills, atomic structure, matter, bonding, solutions, Newton's laws, simple machines, energy, waves. This course provides the physical science explanations that extend understandings developed in previous science courses. Students will use scientific processes, protocols, and tools, including inquiry, to build understanding of structures, patterns, and relationships explained through the physical sciences. Critical thinking, collaboration, accuracy, and communication skills will be emphasized as students refine their scientific literacy.
AGT SOCIAL STUDIES, HONORS, GRADE 6 (04497HPK06)
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity in the social sciences such as history, economics, geography, government, and civics. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society.

AGT CIVICS, HONORS, GRADE 7 (04161H0707) SEMESTER
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity in the U.S. founding documents; representative democracy; law; personal finance; U.S. political system; civic participation and responsibility. Students will study the foundations of American democracy and the origins of American government with an emphasis on the Constitution and the rights and responsibilities of citizens in a democratic society. In addition, the roles of political parties, campaigns & elections, public opinion, and the media will also be reviewed to increase the awareness and agency necessary to develop responsible citizens who use analytical reasoning and historical thinking to make informed decisions about the issues that face our nation and world today.

AGT GEOGRAPHY, HONORS, GRADE 7 (04001H0707) SEMESTER
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity in cultural geography emphasizing Eastern Hemisphere; places and regions; physical systems; human systems; relationships between people and their environment. Students examine the earth from the scale of states, nations, countries, and continents creating connections to contemporary geographic conditions. Students synthesize concepts, patterns, and interdependent relationships that make our ever-changing world diverse and dynamic. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society.

AGT WORLD HISTORY TO 1500, HONORS, GRADE 8 (04051H0808)
Advanced work utilizing a conceptual approach with interdisciplinary connections, depth, and complexity in the chronological history of the world; survey of early and classical civilizations; world expansion of agrarian and commercial civilizations from the beginnings to 1500. Students to generate connections between the historical development of people, places, and patterns of life from ancient times until 1500 A.D. to modern civilization. Building historical understanding will require students to engage in historical thinking: to question and use evidence to support their answers. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to global society.
## Special Education

<table>
<thead>
<tr>
<th>6th Grade</th>
<th>7th Grade</th>
<th>8th Grade</th>
</tr>
</thead>
</table>
| **Reading, Basic Skills**  
(01068XPK06) | **Reading, Basic Skills**  
(01068X0707) | **Reading, Basic Skills**  
(01068X0707) |
| **English Language Arts, Basic Skills**  
(01009XPK06) | **English Language Arts, Basic Skills**  
(01009X0707) | **English Language Arts, Basic Skills**  
(01009X0707) |
| **Mathematics, Basic Skills**  
(02049XPK06) | **Mathematics, Basic Skills**  
(02049X0707) | **Mathematics, Basic Skills**  
(02049X0707) |
| **Science, Basic Skills**  
(03996XPK06) | **Science, Basic Skills**  
(03996X0707) | **Science, Basic Skills**  
(03996X0707) |
| **Social Studies, Basic Skills**  
(04496XPK06) | **Social Studies, Basic Skills**  
(04496X0707) | **Social Studies, Basic Skills**  
(04496X0707) |
| **AAS: Reading 6**  
(01046X0606) | **AAS: Reading 7**  
(01047X0707) | **AAS: Reading 8**  
(01048X0808) |
| **AAS: English Language Arts 6**  
(01034X0606) | **AAS: English Language Arts 7**  
(01035X0707) | **AAS: English Language Arts 8**  
(01036X0808) |
| **AAS: Mathematics 6**  
(02036X0606) | **AAS: Mathematics 7**  
(02037X0707) | **AAS: Mathematics 8**  
(02038X0808) |
| **AAS: Science 6**  
(03236X0606) | **AAS: Science 7**  
(03237X0707) | **AAS: Science 8**  
(03238X0808) |
| **AAS: Social Studies 6**  
(04436X0606) | **AAS: Social Studies 7**  
(04437X0707) | **AAS: Social Studies 8**  
(04438X0808) |

### 6th – 8th Grade

- **Deaf or Hard of Hearing/Hearing Impairment**  
  (22999X0001)
  - **AAS: Elective**  
    (22250X1001)
  - **AAS: Life Skills**  
    (19257X1001)
  - **AAS: Pre-Vocational**  
    (22152X1001)
  - **AAS: Vocational**  
    (22153X1001)
  - **AAS: Community Based Instruction**  
    (22251X1001)

### Basic Skills Courses

Applies to teachers providing remediation to students with disabilities who have received their core instruction from a general education teacher. Teachers for this course do not have to meet the highly qualified teacher status.
ALTERNATE ACHIEVEMENT STANDARDS (AAS) COURSES
This code applies to students with significant cognitive disabilities using alternate achievement standards (Extended Standards). Required for Special Education students earning core credit through AAS

AAS: LIFE SKILLS (19257X1001)
Applies to students with significant cognitive disabilities enrolled in a life skills course. Course objectives emphasize increasing independence and self-determination skills.

AAS: PRE-VOCA TIONAL (22152X1001)
Applies to students with significant cognitive disabilities enrolled in a pre-vocational course. Course objectives emphasize job exploration and pre-employment readiness instruction.

AAS: VOCATIONAL (22153X1001)
Applies to students with significant cognitive disabilities enrolled in a vocational course. Course objectives emphasize increasing job readiness and employability skills.

AAS: COMMUNITY BASED INSTRUCTION (22251X1001)
Applies to students with significant cognitive disabilities enrolled in a community-based instruction. Course objectives emphasize learning beyond the classroom through community integration.
Academic Courses
All 6th grade students will take five (5) academic courses to include Reading, English Language Arts, Math, Science, and Social Studies, as well as a Physical Education/Health course. STUDENTS AND THEIR PARENTS/GUARDIANS ARE ENCOURAGED TO MAKE SELECTIONS CAREFULLY!

Honors courses are available in each of the five academic subjects. Students are recommended for placement in Honors courses based on specific student data (e.g., standardized test scores, STAR scores, Scantron scores, grades, etc.). Students who score below proficiency on a normed standardized test may be administratively placed in math or reading intervention.

Students may enroll in honors courses in one of three ways:
1) Student meets placement guidelines for enrollment in the honors course
2) Teacher recommends student for honors course
3) Parent/guardian requests student enrollment in honors course.

Core Courses

English
☐ ELA, Grade 6 (01034G0606)
☐ ELA, Grade 6, Honors (01037HPK06)

Mathematics
☐ Mathematics, Grade 6 (02036G0606)
☐ Mathematics, Grade 6, Honors (02999HPK06)

Reading
☐ Reading (01046G0606)
☐ Reading, Honors (01066HPK06)

Science
☐ Science, Grade 6 (03010G0606)
☐ Science, Grade 6, Honors (03999HPK06)

Social Studies
☐ Social Studies, Grade 6 (04436G0606)
☐ Social Studies, Grade 6, Honors (04497HPK06)

Other Required Course
☐ Physical Education, Grade 6 (08036G0606)

Elective Courses/Additional Core Courses
All 6th grade students will take one (1) elective course of choice. Please fill in choices for electives IN ORDER OF PREFERENCE. List three (3) options in case top choice is unavailable due to scheduling conflicts.

Course #1
Course #2
Course #3

Student Signature __________________________ Date __________

Parent/Legal Guardian Signature ________________ Date __________

Digital signatures are not currently being accepted. The completed digital form needs to be printed and signed.

*Students may enroll in Career Pathway courses not offered at their school of enrollment. HCS will provide transportation to students seeking to take Career Pathway courses at another school. Students will be enrolled in the desired Career Pathway program at the HCS school nearest to the student’s school of enrollment.
**Huntsville City Schools 7th Grade Course Request Form 2021-2022**

**DEADLINE FOR ALL CHANGES TO COURSES REQUESTED BELOW: MARCH 8**

<table>
<thead>
<tr>
<th>Student Legal Name</th>
<th>Student ID:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Name</td>
<td>First Name</td>
</tr>
<tr>
<td>Student Phone #</td>
<td>Student Email:</td>
</tr>
<tr>
<td>Parent Phone #</td>
<td>Parent Email:</td>
</tr>
<tr>
<td>6th Grade HR Teacher/School</td>
<td></td>
</tr>
</tbody>
</table>

**ACADEMIC COURSES**

All 7th grade students will take four (4) academic courses to include English Language Arts, Math, Science, and Social Studies, as well as a Physical Education/Health course.

**STUDENTS AND THEIR PARENTS/GUARDIANS ARE ENCOURAGED TO MAKE SELECTIONS CAREFULLY!**

Honors courses are available in each of the five academic subjects. Students are recommended for placement in Honors courses based on specific student data (e.g., standardized test scores, STAR scores, Scantron scores, grades, etc.). Students who score below proficiency on a normed standardized test may be administratively placed in math or reading intervention.

Students may enroll in honors courses in one of three ways:

1. Student meets placement guidelines for enrollment in the honors course
2. Teacher recommends student for honors course
3. Parent/guardian requests student enrollment in honors course.

**CORE COURSES**

<table>
<thead>
<tr>
<th>English</th>
<th>Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ ELA, Grade 7 (01035G0707)</td>
<td>☐ Life Science (03237G0707)</td>
</tr>
<tr>
<td>☐ ELA, Grade 7, Honors (01035H0707)</td>
<td>☐ Life Science, Honors (03237H0707)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Social Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Mathematics, Grade 7 (02037G0707)</td>
<td>☐ Civics (04161G0707)</td>
</tr>
<tr>
<td>☐ Mathematics, Grade 7 Accelerated (02037H0707)*</td>
<td>☐ Geography (04001G0707) &amp; Geography, Honors (04001H0707)</td>
</tr>
</tbody>
</table>

* 7th & 8th Grade Accelerated satisfy the Algebra I requirement in high school

<table>
<thead>
<tr>
<th>Other Required Course</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Physical Education, Grade 7 (08037G0708)</td>
<td></td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES/ADDITIONAL CORE COURSES**

All 7th grade students will take two (2) elective courses of choice. Please fill in choices for electives **IN ORDER OF PREFERENCE.** List four (4) options in case top choice is unavailable due to scheduling conflicts.

<table>
<thead>
<tr>
<th>Course #1</th>
<th>Course #2</th>
<th>Course #3</th>
<th>Course #4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**Student Signature**

Date

**Parent/Legal Guardian Signature**

Date

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*Students may enroll in Career Pathway courses not offered at their school of enrollment. HCS will provide transportation to students seeking to take Career Pathway courses at another school. Students will be enrolled in the desired Career Pathway program at the HCS school nearest to the student’s school of enrollment.*
Huntsville City Schools 8th Grade Course Request Form 2021-2022

DEADLINE FOR ALL CHANGES TO COURSES REQUESTED BELOW: MARCH 8

Student Legal Name: ____________________________________________
                     Last Name First Name Middle Initial

Student ID: ______________________
            10-digit state ID

Student Phone #: ___________________

Student Email: __________________________________________________

Parent Phone #: ___________________

Parent Email: ____________________________________________________

7th Grade HR Teacher/School: ______________________________________

ACADEMIC COURSES

All 8th grade students will take four (4) academic courses to include English Language Arts, Math, Science, and Social Studies, as well as a Physical Education/Health course.

STUDENTS AND THEIR PARENTS/GUARDIANS ARE ENCOURAGED TO MAKE SELECTIONS CAREFULLY!

Honors courses are available in each of the five academic subjects. Students are recommended for placement in Honors courses based on specific student data (e.g., standardized test scores, STAR scores, Scantron scores, grades, etc.). Students who score below proficiency on a normed standardized test may be administratively placed in math or reading intervention.

Students may enroll in honors courses in one of three ways:
   1) Student meets placement guidelines for enrollment in the honors course
   2) Teacher recommends student for honors course
   3) Parent/guardian requests student enrollment in honors course.

CORE COURSES

English
☐ ELA, Grade 8 (01036G0808)
☐ ELA, Grade 8, Honors (01036H0808)

Mathematics
☐ Mathematics, Grade 8 (02038G0808)
☐ Mathematics, Grade 8 Accelerated (02038H0808)*†
* 7th & 8th Grade Accelerated satisfy the Algebra I requirement in high school
† Students can only take 8th Grade Accelerated if they have successfully completed 7th grade accelerated.

Science
☐ Physical Science (03011G0808)
☐ Physical Science, Honors (03011H0808)

Social Studies
☐ World History to 1500 (04051G0808)
☐ World History to 1500, Honors (04051H0808)

Other Required Course
☐ Physical Education, Grade 8 (08037G0708)

ELECTIVE COURSES/ADDITIONAL CORE COURSES

All 7th grade students will take two (2) elective courses of choice. Please fill in choices for electives IN ORDER OF PREFERENCE. List four (4) options in case top choice is unavailable due to scheduling conflicts.

Course #1 __________________________________________________________
Course #2 __________________________________________________________
Course #3 __________________________________________________________
Course #4 __________________________________________________________

Student Signature ____________________________________________ Date __________

Parent/Legal Guardian Signature ____________________________ Date __________

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*Students may enroll in Career Pathway courses not offered at their school of enrollment. HCS will provide transportation to students seeking to take Career Pathway courses at another school. Students will be enrolled in the desired Career Pathway program at the HCS school nearest to the student’s school of enrollment.
Appendix

The mathematics pathway:

- 5th grade math will go into 6th grade math or 6th grade math honors.
- 6th grade math or 6th grade math honors will go into 7th grade math or 7th grade math accelerated.
- 7th grade math will go into 8th grade math.
- 7th grade math accelerated will go into 8th grade math or 8th grade math accelerated.
- 7th grade math accelerated, and 8th grade math accelerated satisfy the requirement for Algebra I with Probability.
- 8th grade math or 8th grade math accelerated will go to Geometry with Data Analysis Regular or Honors.
- Geometry with Data Analysis Regular or Honors can be taken concurrently with Algebra I with Probability Regular or Honors.
- Students who successfully completed 7th grade math accelerated, and 8th grade math accelerated do not have to take Algebra I with Probability Regular or Honors.
- Geometry with Data Analysis Regular or Honors will go to Algebra I with Probability Regular or Honors.
- Accelerated students can accelerate to Algebra II with Statistics Regular or Honors.
- Algebra I with Probability Regular or Honors will go to Algebra II with Statistics Regular or Honors.
- After Algebra II with Statistics Regular or Honors students have the following choices:
  - Applications of Finite Mathematics
  - Mathematical Modeling
  - Precalculus Regular or Honors
  - AP Statistics
  - AP Computer Science
  - Other ALSDE approved course including dual enrollment
- Those students who take Honors Precalculus can go into AP Calculus.