

Huntsville City Schools

Middle Grades Course Catalog

2023 — 2024



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Table of Contents

Introduction.....	1
Middle Grades Course Descriptions.....	2
Core Courses.....	2
English / Language Arts (ELA).....	2
Mathematics	4
Science.....	6
Social Studies	7
Art.....	8
Career Readiness.....	9
Entertainment Technology.....	10
Music	11
Physical Education.....	13
Project Lead the Way (PLTW)	14
Additional Electives.....	15
Magnet Programs Course Descriptions	18
Magnet Programs.....	19
Academy for Academics and Arts (AAA)	19
Academy for Science and Foreign Language (ASFL)	25
Academy for Gifted and Talented at Williams Middle School.....	28
Special Education.....	33
Appendix A – Math Pathway Description of Chart.....	34
Huntsville City Schools Course Request Forms Magnet 2023-2024	35
Huntsville City Schools 6 th Grade Course Request Form 2023-2024	36
Huntsville City Schools 7 th Grade Course Request Form 2023-2024	37
Huntsville City Schools 8 th Grade Course Request Form 2023-2024	38

INTRODUCTION

Dear Parents/Guardians and Students,

The 2023-2024 Huntsville City Schools 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 2023-2024 school year.

Sincerely,

Huntsville City Schools
Secondary Programs Department

MIDDLE GRADES COURSE DESCRIPTIONS

Core Courses

English / Language Arts (ELA)

6 th Grade	7 th Grade	8 th Grade
ELA, Grade 6 (01034G0606) ELA, Grade 6, Honors (01037HPK06) Reading Intervention (01068GPK06) English for Speakers of Other Languages, Grade 6 (01008GPK06) Reading (01046G0606) Reading, Honors (01066HPK06)	ELA, Grade 7 (01035G0707) ELA, Grade 7, Honors (01035H0707)	ELA, Grade 8 (01036G0808) ELA, Grade 8, Honors (01036H0808)
7 th and 8 th Grade		
English for Speakers of Other Languages (01008G1000) English Intervention (01009G0000) Journalism 1 (11101G1013)		

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)

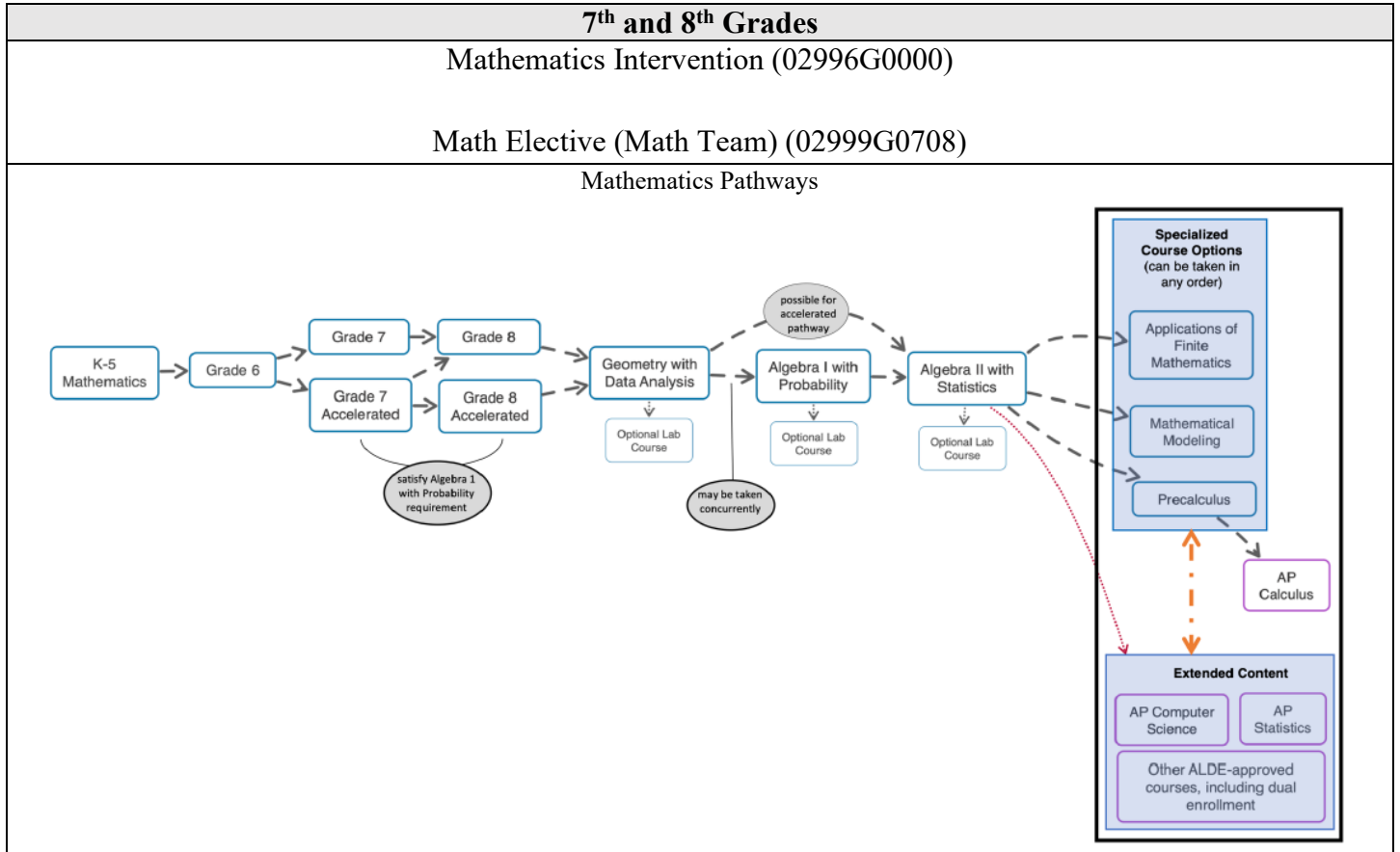
Remedial work below grade level in reading literature, reading informational text, writing, speaking, and listening, and language. (Requires approval from counselor.)

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

6 th Grade	7 th Grade	8 th Grade
Mathematics, Grade 6 (02036G0606)	Mathematics, Grade 7 (02037G0707)	Mathematics, Grade 8 (02038G0808)
Mathematics, Grade 6, Honors (02999HPK06)	Mathematics, Grade 7 Accelerated (02037H0707)	Mathematics, Grade 8 Accelerated (02038H0808)
Mathematics Intervention (02049GPK06)		



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.

Science

6 th Grade	7 th Grade	8 th Grade
Science, Grade 6 (03010G0606)	Life Science (03237G0707)	Physical Science (03011G0808)
Science, Grade 6 Honors (03999HPK06)	Life Science, Honors (03237H0707)	Physical Science, Honors (03011H0808)

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.

Social Studies

6 th Grade	7 th Grade	8 th Grade
Social Studies, Grade 6 (04436G0606)	Civics (04161G0707) (First Semester)	World History to 1500 (04051G0808)
Social Studies, Grade 6, Honors (04497HPK06)	Civics, Honors (04161H0707) (First Semester)	World History to 1500, Honors (04051H0808)
	Geography (04001G0707) (Second Semester)	
	Geography, Honors (04001H0707) (Second Semester)	

SOCIAL STUDIES, GRADE 6 (04436G0606)

United States History from the Industrial Revolution to the present.

SOCIAL STUDIES, HONORS, GRADE 6 (04497HPK06)

Advanced work in the social sciences from the Industrial Revolution to the present.

CIVICS, GRADE 7 (04161G0707) FIRST SEMESTER

U.S. founding documents; representative democracy; law; personal finance; U.S. political system; civic participation and responsibility.

CIVICS, HONORS, GRADE 7 (04161H0707) FIRST SEMESTER

Advanced work in the U.S. founding documents; representative democracy; law; personal finance; U.S. political system; civic participation and responsibility.

GEOGRAPHY, GRADE 7 (04001G0707) SECOND SEMESTER

Cultural geography emphasizing the Eastern Hemisphere; places and regions; physical systems; human systems; relationships between people and their environment.

GEOGRAPHY, HONORS, GRADE 7 (04001H0707) SECOND SEMESTER

Advanced work in cultural geography emphasizing the Eastern Hemisphere; places and regions; physical systems; human systems; relationships between people and their environment.

WORLD HISTORY TO 1500, GRADE 8 (04051G0808)

Chronological history of the world: survey of early and classical civilizations; world expansion of agrarian and commercial civilizations from beginnings to 1500

WORLD HISTORY TO 1500, HONORS, GRADE 8 (04051H0808)

Advanced work 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.

Art

7 th Grade	8 th Grade
Visual Arts, Grade 7 (05187G0707)	Visual Arts, Grade 8 (05188G0808)

VISUAL ARTS 6 IS ONLY OFFERED AT THE CREATIVE AND PERFORMING ARTS MIDDLE SCHOOL- *The Academy for Academics and Arts*

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

NOTE: Career readiness courses are typically semester long courses, but the length of the course can be determined at the school level.

7 th or 8 th Grade	8 th Grade
STEM Technologies I (21052G0608)	STEM Technologies III, Grade 8 (21052G0808)
STEM Technologies II (21052G0708)	
We Build it Better (21052G6800)	
Career Cluster Explorations (22151G0608)	

STEM TECHNOLOGIES I (21052G0608)

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 (21052G0708)

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.

WE BUILD IT BETTER (21052G6800)

Locations may vary. We Build It Better provides students with the knowledge that goes along with understanding the process behind developing a new product. Students learn foundational skills so they can create unique solutions to real-world industry-based challenges. This course is powered by Flight Works Alabama

CAREER CLUSTER EXPLORATIONS (22151G0608)

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.

STEM TECHNOLOGIES III, GRADE 8 (21052G0808)

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.

Entertainment Technology

NOTE: The Entertainment Technology Academy locations may vary.

7 th and 8 th Grade
Middle School Evolution of Games (22994X1014) (semester)
Introduction to Video Game Design (22994X1015) (semester)

MIDDLE SCHOOL EVOLUTION OF GAMES (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.)

6 th – 8 th Grades	
Concert Band I (05102G1001)	Chamber Chorus I (05111G10C1)
Concert Band II (05102G1002)	Chamber Chorus II (05111G10C2)
Concert Band III (05102G1003)	Chamber Chorus III (05111G10C3)
Music Appreciation (05137G0707)	

CONCERT BAND I (05102G1001)

This is a novice level course designed for beginning music students to experience instrumental music in a concert band setting. 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 famous composers of concert band music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

CONCERT BAND II (05102G1002)

This is an intermediate level course designed for students with at least one year of experience-to-experience instrumental music in a concert band setting. 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 famous composers of concert band music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

CONCERT BAND III (05102G1003)

This is a proficient level designed for students to increase artistry through reinforced experiences in an instrumental music concert band setting. 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 famous composers of concert band music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

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.

MUSIC APPRECIATION (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.

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 & 8 (08037G0708)

Skill execution as opposed to the acquisition of skills which are integrated into games, sports, rhythms, and gymnastics.

Project Lead the Way (PLTW)

NOTE: The PLTW courses listed below are available to 7th and 8th grade students at various locations.

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 (10099G6800) 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 - PLTW (10099G6801) SEMESTER

Grade(s): 7-8 only

Prerequisite(s): None

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

8 th Grade
CS Makers (10013G0808)
Introduction to Cyber Security (10020G0808)
STEM Connections (Greenpower Intermediate) (19299G0808) *
7 th - 8 th Grades
Academic Skill Building (22006X1065)
Computer Science Discoveries (10012G0608)
Introduction to Greenpower (21105G0708) *
Introduction to Web Page Design (22994X1011)
Peer Helper (22107X1000)
School Publications (11104X1000)
Service Learning (23992X1006)
Student Aide (22051X1000)
The Game of Life (22994X1012) (semester)*
The Game of Life II (22994X1013) (semester)*
Video Production (22994X1010)*
*Location may vary where courses are offered.

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.

STEM CONNECTIONS (GREENPOWER INTERMEDIATE), GRADE 8 (19299G0808)

Locations may vary.

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.

ACADEMIC SKILL BUILDING (22006X1065)

The Academic Skill Building Elective is a course for students who plan to take advanced courses. The curriculum focuses on 6 academic areas: writing, inquiry, collaboration, organization, and reading (WICOR) through teacher, tutor, and peer-led activities. Academic success in the student's current classes is supported by teaching skills in notetaking, outlining, writing, speaking, reading, test-taking strategies, and self-awareness.

COMPUTER SCIENCE DISCOVERIES, GRADES 7-8 (10012G0608)

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.

INTRODUCTION TO GREENPOWER, GRADES 7-8 (21105G0708)

Locations may vary.

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.

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.

PEER HELPER, GRADES 7-8 (22107X1000)

Supervised tutoring services are offered by students.

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)

Enhanced learning activities focused on service learning

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

Locations may vary.

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 may 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

Locations may vary.

This class builds on skills students became an expert in during The Game of Life. Course content may provide 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 may include hands-on activities such as Chef for a Day, Real Care Baby simulation, and guest speakers are important components of the class.

VIDEO PRODUCTION (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.

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 “disciplines” 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 and Pre-AP courses. To develop the talent of gifted students, AGT offers a variety of electives that infuse STEAM curriculum, performing arts, 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.

Magnet Programs

Academy for Academics and Arts (AAA)

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.)

6 th Grade	7 th Grade	8 th Grade
<u>Writing</u> Creative Writing, Grade 6 (22994X1050)	<u>Writing</u> Creative Writing, Grades 7 (22994X1051)	<u>Writing</u> Creative Writing, Grade 8 (01104G0808)
<u>Exploration of Dance</u> Dance, Grade 6 (05036G0606)	<u>Exploration of Dance</u> Dance, Grade 7 (05037G0707)	<u>Exploration of Dance</u> Dance, Grade 8 (05038G0808)
Dance Elective: Grade 6 (22994X1003)	Dance Elective A: Grade 7 (22994X1004)	Dance Elective B: Grade 8 (22994X1005)
<u>Vocal and Instrumental Performance</u> Orchestra I, Grade 6 (05104G1001)	<u>Vocal and Instrumental Performance</u> Orchestra II, Grade 7 (05104G1002)	<u>Vocal and Instrumental Performance</u> Orchestra, III, Grade 8 (05104G1004)
Mixed Chorus I (05110G1001)	Mixed Chorus II (05110G1002)	Mixed Chorus III (05110G1003)
	Show Choir (05121G1001)	Show Choir II (05121G1002)
<u>Theatre</u> Arts Elective: Clowns, Grade 6 (05999GPK06)	<u>Theatre</u> Arts Elective: Stars, Grade 7-8 (22994X1002)	<u>Theatre</u> Arts Elective: Stars, Grade 7-8 (22994X1002)
Theatre, Grade 6 (05076G0606)	Theatre, Grade 7 (05077G0707)	Theatre, Grade 8 (05078G0808)
Technical Theatre, Grade 6 (23992X1063)	Technical Theatre, Grade 7 (23992X1064)	Technical Theatre, Grade 8 (23992X1065)
	Theatre Elective: Thespians, Grades 7-8 (22994X1006)	Theatre Elective: Thespians, Grades 7-8 (22994X1006)
<u>Visual Art</u> Visual Art (Painting), Grade 6 (05186G0606)	<u>Visual Art</u> Visual Art (Painting), Grade 7 (05187G0707)	<u>Visual Art</u> Visual Art (Painting), Grade 8 (05188G0808)
Media Arts, Grade 6 (05169G0606)	Media Arts Grade 7- Photography (05169G0707)	Media Arts Grade 8- Photography and 2D-3D Art (05169G0808)

CREATIVE WRITING, GRADE 6 (22994X1050)

NOTE: THIS COURSE DOES NOT REPLACE ENGLISH 6.

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.

CREATIVE WRITING, GRADES 7 (22994X1051)

NOTE: THIS COURSE DOES NOT REPLACE ENGLISH 7.

This course allows students to participate in newspaper production; news information gathering; proofreading; writing in various genres and classroom discussion groups that both encourage and support the creative process.

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.

DANCE, GRADE 6 (05036G0606)

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)**DANCE ELECTIVE A: GRADE 7 (2294X100204)****DANCE ELECTIVE B: GRADE 8 (2294X100205)**

Locally developed course based on student interests and school theme/focus.

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.

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 (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.

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.

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.

ARTS ELECTIVE: STARS, GRADE 7-8 (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 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.

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. Student 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.

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.

TECHNICAL THEATRE, GRADE 6 (23992X1063)**TECHNICAL THEATRE, GRADE 7 (23992X1064)****TECHNICAL THEATRE, 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.

THEATRE ELECTIVE: THESPIANS, GRADE 7-8 (22994X1006)

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.

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 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 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 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.

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.

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.

Academy for Science and Foreign Language (ASFL)

ASFL STUDENTS ARE EXPECTED TO PARTICIPATE IN AN ALSDE REQUIRED SCIENCE AND ONE SCIENCE MAGNET COURSE.

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

6 th Grade	7 th Grade	8 th Grade
<p style="text-align: center;">French (24100G0606) OR Spanish (24050G0606)</p>	<p style="text-align: center;">French Exploratory, Grade 7 (24100G0707) OR Spanish Exploratory, Grade 7 (24050G0707)</p>	<p style="text-align: center;">French I (24102G1000) OR French Exploratory, Grade 8 (24100G0808)</p> <p style="text-align: center;">Spanish Exploratory, Grade 8 (24050G0808) OR Spanish I (24052G1000)</p>
<p>Science, Grade 6: The Active Earth (03010G0606)</p> <p style="text-align: center;">OR</p> <p>Science, Grade 6 Honors: The Active Earth (03999HPK06)</p> <p style="text-align: center;">AND</p> <p style="text-align: center;"><i>Science Magnet Course:</i> Green Architecture - PLTW (21024G0608) OR Computer Science for Innovators and Makers - PLTW (10099G6801)</p>	<p>Life Science, Grade 7: Life on Earth (03237G0707)</p> <p style="text-align: center;">OR</p> <p>Life Science, Grade 7, Honors: Life on Earth (03237H0707)</p> <p style="text-align: center;">AND</p> <p style="text-align: center;"><i>Science Magnet Course:</i> Medical Detectives - PLTW (14001G0608) OR Energy and the Environment - PLTW (21024G0708)</p>	<p>Physical Science, Grade 8: The Physical Earth (03011G0808)</p> <p style="text-align: center;">OR</p> <p>Physical Science, Grade 8, Honors: The Physical Earth (03011H0808)</p> <p style="text-align: center;">AND</p> <p style="text-align: center;"><i>Science Magnet Course:</i> Flight and Space - PLTW (21019G0708) OR Magic of Electrons - PLTW (21023G0708)</p>

6 th - 8 th Grade Magnet Electives
<p>Additional STEM or Foreign Language Based Electives will be determined each year. Courses will be available for request during registration.</p>
<p style="text-align: center;">Future City Course and Competition Based (22994X1008)</p> <ul style="list-style-type: none"> • <i>Participation in this course may require additional fees, including after school and weekend participation.</i> <p style="text-align: center;">Robotics Course and Competition Based (22994X1009)</p> <ul style="list-style-type: none"> • <i>Participation in this course may require additional fees, including after school and weekend participation.</i> <p style="text-align: center;">International Baccalaureate Planning and Advisory (22006X1064)</p>

Exploratory STEM Curricula
Alabama STEM Standards
Project Lead the Way (PLTW)

SCIENCE, GRADE 6: THE ACTIVE EARTH (03010G0606), HONORS (03999HPK06)

This course will build upon the Alabama State Department of Education’s required coursework for sixth grade Earth Science. This course will emphasize and provide a hands-on approach to understanding planets and stars, the earth itself as center stage; with an emphasis on earthquakes, tornadoes, and other natural phenomena. The science of understanding disaster prediction and the effect of terrain on extreme weather will be the main focus.

GREEN ARCHITECTURE - PLTW (21024G0608)

In a world of reduced resources and environmental challenges, it is important to present the concept of “being green” to the next generation of designers and builders. In this unit, students are introduced to architectural plans, construction styles, alternative materials and processes, dimensioning, measuring and architectural sustainability. Students use a 3D architectural software program to create an environmentally friendly home using shipping containers.

COMPUTER SCIENCE FOR INNOVATORS AND MAKERS - PLTW (10099G6801)

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, students code and upload programs to microcontrollers that perform a variety of authentic tasks. Student 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.

SCIENCE, LIFE SCIENCE, GRADE 7: LIFE ON EARTH (03237G0707), HONORS (03237H0707)

This course will build upon the Alabama State Department of Education’s required coursework for seventh grade Life Science. 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 processes, protocols, and tools, including inquiry, to build an 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. The study of taxonomy, genetics, ecosystems and the human body are only a few subjects covered in this core science course. This course will be extended by including cellular biology and a detailed study of organic chemistry. As students engage in this course throughout the year a survey of the inner workings of the brain and neuroscience will accompany coursework associated with the study of human anatomy.

MEDICAL DETECTIVES - PLTW (14001G0608)

Medical Detectives (MD) explores 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.

ENERGY AND THE ENVIRONMENT - PLTW (21024G0708)

A course designed for students to investigate the importance of energy and its impact on the environment. Students design and model alternative energy sources and evaluate ways to reduce consumption through energy efficiency and waste management techniques.

SCIENCE, PHYSICAL SCIENCE, GRADE 8: THE PHYSICAL EARTH (03011G0808), HONORS (03011H0808)

This course will build upon the Alabama State Department of Education's required coursework for eighth grade Physical Science. Atomic structures, physics, and chemistry are included as core standards for this class. Additionally, an intensive overview of nuclear technology and nuclear medicine examines the use of chemistry and the physical properties of elements in history and modern life.

FLIGHT AND SPACE - PLTW (21019G0708)

A 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.

MAGIC OF ELECTRONS - PLTW (21023G0708)

A course designed for students to explore the science of electricity, behavior and parts of atoms, circuit design, and sensing devices. Students acquire knowledge and skills in basic circuitry design and explore the impact of electricity on their lives.

FUTURE CITY, GRADES 7-8 (22994X1008)

Specialized science processes; scientific principles and knowledge; and skills, application, and experimentation in life, physical, and earth sciences.

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.

INTERNATIONAL BACCALAUREATE PLANNING AND ADVISORY (22006X1064)

This course allows students in the Middle Years Programme to have an opportunity to work on skills needed to fulfill International Baccalaureate coursework (ex. assessments, community service projects). Students participating in this course will be selected by the IB Coordinator.

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 EXPLORATORY, GRADE 8 (24100G0808)

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 EXPLORATORY, GRADE 8 (24050G0808)

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.

Academy for Gifted and Talented at Williams Middle School

Honors/Pre AP-Based Magnet Program 2023-2024 Cohort

6 th Grade	7 th Grade	8 th Grade
English Language Arts, Honors, Grade 7 (01035H0707) Math 7, Accelerated (02037H0707) AND Mathematics Lab Elective (02996G1000)	Pre-AP English 1 (01001E10PR) Math 8, Accelerated (02038H0808) AND Pre-AP Algebra I (02052E10PR)	Pre-AP English 2 (01002E10PR) Pre-AP Geometry with Statistics (02073E10PR) AND Mathematics Lab Elective (02996G1000)

2021-2022 AND 2022-2023 Cohorts

7 th Grade	8 th Grade
English Language Arts, Honors, Grade 7 (01035H0707) Math 7, Accelerated (02037H0707) AND Mathematics Lab Elective (02996G1000)	English Language Arts, Honors, Grade 8 (01036H0808) Math 8, Accelerated (02038H0808) AND Pre-AP Algebra I (02052E10PR)

Science and Social Studies Courses - All Cohorts

6 th Grade	7 th Grade	8 th Grade
AGT Science, Honors, Grade 6: STEAM I (03999HPK06) Social Studies, Honors, Grade 6 (04497HPK06)	AGT Life Science 7, Honors: STEAM II (03237H0707) Civics, Honors, Grade 7 (04161H0707) (semester) Geography, Honors, Grade 7 (04001H0707) (semester)	AGT Physical Science 8, Honors: STEAM III Seminar (03011H0808) World History to 1500, Honors, Grade 8 (04051H0808)

Magnet Electives

6 th - 8 th Grade
<p>Additional Gifted or Creative and Performance Art Electives will be determined each year. Courses will be available for request during registration.</p> <p>Harmonizing Instruments, Piano I (05107G1001) Harmonizing Instruments, Piano II (05107G1002) Harmonizing Instruments, Piano III (05107G1003)</p>

NOTE: AGT IS A PROGRAM WITHIN WILLIAMS MIDDLE SCHOOL. ALL STUDENTS AT WILLIAMS MIDDLE SCHOOL PARTICIPATE IN A FOREIGN LANGUAGE:

SPANISH, GRADE 6 (24050G0606)

SPANISH EXPLORATORY, GRADE 7 (24050G0707)

SPANISH EXPLORATORY, GRADE 8 (24050G0808)

ENGLISH LANGUAGE ARTS, HONORS, GRADE 7 (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.

PRE-AP ENGLISH 1 (01001E10PR)

This course focuses on the close reading, analytical writing, and language skills that have immediate relevance for students across their current courses and that are most essential for their future work in high school, college, and careers. Emphasis is on close reading of complex texts, with a stress on valuing evidence, and focus on attention to language. Students read closely and analyze a range of complex literary and informational texts; value textual evidence and incorporate it effectively in writing and speaking; and understand how writers and speakers use specific words and sentences to move the thoughts, emotions, and actions of readers and listeners.

PRE-AP ENGLISH 2 (TBD)

This course builds on the foundations of Pre-AP English 1. While English 1 introduces the fundamentals of close observation, critical analysis, and the appreciation of author's craft, English 2 requires students to apply those practices to a new array of nonfiction and literary texts. As readers, students become aware of how poets, playwrights, novelists, and writers of nonfiction manipulate language to serve their purposes. As writers, students compose more nuanced analytical essays while never losing sight of craft and cohesion.

ENGLISH LANGUAGE ARTS, HONORS, GRADE 8 (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.

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.

MATHEMATICS LAB ELECTIVE (02996G1000)

This course is to support the mathematics class by remediating standards not mastered in previous mathematics courses and allowing extra time to master standards in the current course.

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.

PRE-AP ALGEBRA I (02052E10PR)

Emphasis is on linear equations and linear functions with focus on authentic applications and concentration on creating mathematical arguments. Students develop deep and robust understanding of linear relationships in procedural, conceptual, and applied settings; employ mathematics to model and explain authentic scenarios; and use evidence to craft mathematical conjectures and prove or disprove them.

PRE-AP GEOMETRY WITH STATISTICS (02073E10PR)

Pre-AP Geometry with Statistics is designed to provide students with a meaningful conceptual bridge between algebra and geometry to deepen their understanding of mathematics. The areas of focus include connections among multiple representations where students represent mathematical concepts in a variety of forms and move fluently among the forms, greater authenticity of applications and modeling where students create and use mathematical models to understand and explain authentic scenarios and engagement in mathematical argumentation, where students use evidence to craft mathematical conjectures and prove or disprove them.

AGT SCIENCE 6, HONORS: STEAM I (03999HPK06)

This course uses the 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 an 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. Problem-Based Learning models designed for gifted students will be used as the instructional approach. Projects are interest-based, technology-infused, standards-embedded, and student-driven. Project products are displayed at AGT's Learning Showcase.

AGT LIFE SCIENCE 7, HONORS: STEAM II (03237H0707)

This course uses the conceptual approach with interdisciplinary connections, depth, and complexity of the scientific process and application skills. Students will use scientific inquiry, problem solving, and critical thinking throughout this course as they apply knowledge and reinforce concepts with real world applications. 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. Gifted students will create large-scale projects within an innovative learning environment that addresses each of the Science, Technology, Engineering, Arts, and Mathematics domains. Health Science is emphasized in seventh grade STEAM. Project products are displayed at AGT's Learning Showcase.

AGT PHYSICAL SCIENCE 8, HONORS: STEAM III SEMINAR (03011H0808)

This course uses a conceptual approach with interdisciplinary connections, depth, and complexity by utilizing the scientific process and application skills. 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. 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.

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.

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.

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.

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.

HARMONIZING INSTRUMENTS, PIANO I (05107G1001)

This is a novice level course designed for beginning music students to experience instrumental music through instruments capable of producing both melody and harmony such as piano, keyboard and synthesizer. 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 accompaniment, timbre, rhythm, melody, harmony, form and expression. Additionally, exposure to music from other cultures, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection.

HARMONIZING INSTRUMENTS, PIANO II (05107G1002)

This is an intermediate level course, designed for students with at least one year of experience with instrumental music through instruments capable of producing both melody and harmony such as piano, keyboard and synthesizer. 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 accompaniment, timbre, rhythm, melody, harmony, form and expression. Additionally, exposure to music from other cultures, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection.

HARMONIZING INSTRUMENTS, PIANO III (05107G1003)

This is a proficient level course, designed for students to increase artistry through reinforced experiences in an instrumental music setting through instruments capable of producing both melody and harmony such as piano, keyboard and synthesizer. 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 accompaniment, timbre, rhythm, melody, harmony, form and expression. Additionally, exposure to music from other cultures, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection.

SPECIAL EDUCATION

6 th Grade	7 th Grade	8 th Grade
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)
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)

6 th – 8 th Grade
Deaf or Hard of Hearing/Hearing Impairment (22999X0001)
AAS: Elective (22250X1001)
AAS: Life Skills (19257X1001)

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.

APPENDIX A – MATH PATHWAY DESCRIPTION OF CHART

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 enrolment

Those students who take Honors Precalculus can go into AP Calculus

MAGNET PROGRAMS COURSE REQUEST FORMS

Magnet Program course request forms will be provided by the School Counselor. The request forms below are for general course selections. Please reach out to the Magnet Counselor if you have not received a course form specific to your student's magnet placement.

Huntsville City Schools 6th Grade Course Request Form 2023-2024

Student Legal Name _____
Last Name First Name Middle Initial

Parent Phone # _____ Parent Email: _____

5th Grade Teacher/School _____

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 Physical Education.

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

Honors courses are available in each of the five academic subjects.

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)

Science

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

Mathematics

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

Social Studies

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

Reading

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

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 two (2) options in case top choice is unavailable due to scheduling conflicts.

Course #1 _____ Course # _____

Course #2 _____ Course # _____

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.

Huntsville City Schools 7th Grade Course Request Form 2023-2024

Student Legal Name _____
Last Name *First Name* *Middle Initial*

Parent Phone # _____ Parent Email: _____

6th Grade HR Teacher/School _____

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 Physical Education.

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

Honors courses are available in each of the four academic subjects.

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 7 (01035G0707)
- ELA, Grade 7, Honors (01035H0707)

Mathematics

- Mathematics, Grade 7 (02037G0707)
 - Mathematics, Grade 7 Accelerated (02037H0707)*
- * 7th & 8th Grade Accelerated satisfy the Algebra I requirement in high school

Other Required Course

- Physical Education, Grade 7 (08037G0708)

Science

- Life Science (03237G0707)
- Life Science, Honors (03237H0707)

Social Studies

- Civics (04161G0707)
& Geography (04001G0707)
- Civics, Honors (04161H0707)
& Geography, Honors (04001H0707)

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 # _____
Course #2 _____ Course # _____
Course #3 _____ Course # _____
Course #4 _____ Course # _____

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.

Huntsville City Schools 8th Grade Course Request Form 2023-2024

Student Legal Name _____
Last Name *First Name* *Middle Initial*

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 Physical Education.

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

Honors courses are available in each of the four academic subjects.

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 Mathematics if they have successfully completed 7th Grade Accelerated Mathematics.

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 8th 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 # _____

Course #2 _____ Course # _____

Course #3 _____ Course # _____

Course #4 _____ Course # _____

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.