



# **HUNTSVILLE CITY SCHOOLS MIDDLE GRADES COURSE CATALOG 2020-2021**

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**HUNTSVILLE CITY  
SCHOOLS**

*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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## Introduction

Dear Parents/Guardians and Students,

The 2020 - 2021 HCS Middle Grades Course Catalog has been revised and updated to assist you with 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 grades 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 the 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 that your school registration event. We look forward to working with you as we prepare for the 2020 - 2021 school year.

Sincerely,

Dr. Clarence Sutton  
Chief Academic Officer

Sincerely,

Leigh Ann Brown, Coordinator  
School Counseling Services

## Middle Grades Course Descriptions

### Art

7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
Visual Arts, Grade 7 (286007)	Media Arts, Grade 8 (282008)
Visual Arts, Grade 7 (286007ae) (semester)	Media Arts, Grade 8 (282008ad) (semester)

#### **VISUAL ARTS, GRADE 7 (286007)**

##### **VISUAL ARTS, GRADE 7 (286007ae) SEMESTER**

*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 (282008)**

##### **MEDIA ARTS, GRADE 8 (280028ad) SEMESTER**

*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.*

## Career Readiness

7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
Career Cluster Technologies I, Grade 7 (400012) semester	Career Cluster Technologies I, Grade 8 (400014) semester
Career Cluster Technologies I, Grade 7 (400013) year	Career Cluster Technologies I, Grade 8 (400015) year
	Career Cluster Exploration, Grade 8 (400001) semester

### **CAREER CLUSTER TECHNOLOGIES I, GRADE 7 (400012) SEMESTER**

*A 70 instructional-hour course designed for Grade 7 to introduce students to foundational knowledge and processes needed to increase students' technological literacy. Students are exposed to the 16 career clusters and related pathways in transportation, communication, manufacturing, and construction.*

### **CAREER CLUSTER TECHNOLOGIES I, GRADE 7 (400013) YEAR**

*A 140 instructional-hour course designed for Grade 7 to introduce students to foundational knowledge and processes needed to increase students' technological literacy. Students are exposed to the 16 career clusters and related pathways in transportation, communication, manufacturing, and construction.*

### **CAREER CLUSTER TECHNOLOGIES II, GRADE 8 (400014) SEMESTER**

*A 70 instructional-hour course for students in Grade 8 that provides an in-depth study of the knowledge and processes needed to further increase students' level of technological literacy. Instruction is provided in technologies related to the 16 career clusters and related pathways.*

### **CAREER CLUSTER TECHNOLOGIES II, GRADE 8 (400015) YEAR**

*A 140 instructional-hour course for students in Grade 8 that provides an in-depth study of the knowledge and processes needed to further increase students' level of technological literacy. Instruction is provided in technologies related to the 16 career clusters and related pathways.*

### **CAREER CLUSTER EXPLORATION, GRADE 8 (400001) SEMESTER**

*A course designed for students to explore career opportunities in the 16 clusters and associated pathways. Emphasis is placed on employability and leadership skills.*

## English / Language Arts

6 <sup>th</sup> Grade	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
English Language Arts (100028)	English Language Arts (200001)	English Language Arts (200003)
English Language Arts, Honors (100030)	English Language Arts, Honors (200002)	English Language Arts, Honors (200004)
Reading Intervention (100009)		
English for Speakers of Other Languages (100191)		
Reading (100008)		
Reading, Honors (100010)		
7 <sup>th</sup> and 8 <sup>th</sup> Grade		
English for Speakers of Other Languages (300001ab)		
English Intervention (200037aa)		
Journalism 1 (200051aa)		
Journalism 1 (200051ab) (semester)		

### **ENGLISH LANGUAGE ARTS, GRADE 6 (100028)**

*Reading literature, reading informational text, writing, speaking and listening, and language; capitalization, punctuation, spelling, and vocabulary.*

### **ENGLISH LANGUAGE ARTS, HONORS, GRADE 6 (100030)**

*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 (100191)**

*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 (100008)**

*Reading literature, reading informational text; skills acquisition, reading techniques, beginning reading to expanding reading power.*

### **READING, HONORS, GRADE 6 (100010)**

*Advanced work in skills acquisition, reading techniques, beginning reading to expanding reading power.*

**READING INTERVENTION, GRADE 6 (100009)**

*Remedial work reading to include work in fluency, comprehension, and vocabulary. (Requires approval of counselor.)*

**ENGLISH LANGUAGE ARTS, GRADE 7 (200001)**

*Reading literature, reading informational text, writing, speaking and listening, and language.*

**ENGLISH LANGUAGE ARTS, HONORS, GRADE 7 (200002)**

*Advanced work in reading literature, reading informational text, writing, speaking and listening, and language.*

**ENGLISH LANGUAGE ARTS, GRADE 8 (200003)**

*Reading literature, reading informational text, writing, speaking and listening, and language.*

**ENGLISH LANGUAGE ARTS, HONORS, GRADE 8 (200004)**

*Advanced work in reading literature, reading informational text, writing, speaking and listening, and language.*

**ENGLISH FOR SPEAKERS OF OTHER LANGUAGES, GRADES 7-8 (300001ab)**

*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 (200037aa)**

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

**JOURNALISM 1, GRADES 7-8 (200051aa) YEAR or (200051ab) SEMESTER**

*Used as Creative Writing; Newspaper study; newspaper production; news information gathering; proofreading; journalistic writing.*



## Entertainment Technology

**NOTE:** The Entertainment Technology Academy is available at Hampton Cove Middle and Huntsville Junior High.

7 <sup>th</sup> and 8 <sup>th</sup> Grade
App Creators - PLTW (560029) (semester)
Computer Science for Innovators and Makers - PLTW (560032) (semester)
Evolution of Games (400012) (semester)
Introduction to Video Game Design (400014) (semester)

### **APP CREATORS - PLTW GRADES 7-8 (560029) 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 (560032) 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.*

### **EVOLUTION OF GAMES, GRADE 8 (400012) 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 (400014) SEMESTER**

*Students will explore the math and science of how video games are made.*

## Magnet Programs – Academy for Academics and Arts (AAA)

6 <sup>th</sup> Grade	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
<b>WRITING</b> Creative Writing, Intro, Grade 6 (802109an)	<b>WRITING</b> Creative Writing I (802109az) Creative Writing II (802109ba)	<b>WRITING</b> Creative Writing I (802109az) Creative Writing II (802109ba)
<b>DANCE</b> Ballet, Grade 6 (100119aa) Dance I, Grade 6 (100118) Jazz, Grade 6 (100119ab) Tap, Grade 6 (100119ac)	<b>DANCE</b> Ballet, Grade 7 (281007aa) Dance I, Grade 7 (281007) Dance II, Grade 7 (281007ad) Dance III, Grade 7 (281007ae) Jazz, Grade 7 (281007ab) Tap, Grade 7 (281007ac)	<b>DANCE</b> Ballet, Grade 8 (281008aa) Dance I, Grade 8 (281008) Dance II, Grade 8 (281008ad) Dance III, Grade 8 (281008ae) Jazz, Grade 8 (281008ac) Tap, Grade 8 (281008ac)
<b>MUSIC</b> Mixed Chorus II, Grade 6 (283700ac) Music, Level I, Grade 6 (100098af) Orchestra, Level I, Grade 6 (283114ab) Orchestra, Level II, Grade 6 (283214ab) Orchestra, Level III, Grade 6 (283314ab)	<b>MUSIC</b> Mixed Chorus II, Grades 7-8 (283700ac) Mixed Chorus III, Grades 7-8 (283800ab) Music, Level I, Grades 7-8 (283008aa) Orchestra, Level I, Grade 7 (283114ac) Orchestra, Level II, Grade 7 (283214ac) Orchestra, Level III, Grade 7 (283314ac) Show Choir, Grades 7-8 (283605ab) STARS, Grades 7-8 (283605aa)	<b>MUSIC</b> Mixed Chorus II, Grades 7-8 (283700ac) Mixed Chorus III, Grades 7-8 (283800ab) Music, Level I, Grade 7-8 (283008aa) Orchestra, Level I, Grade 8 (283114ad) Orchestra, Level II, Grade 8 (283214ad) Orchestra, Level III, Grade 8 (283314ad) Show Choir, Grades 7-8 (283605ab) STARS, Grades 7-8 (283605aa)
<b>THEATRE</b> Clowns, Grade 6 (100119ad) Introduction to Theatre: Technical Theatre, Grades 6-8 (285007ae) (semester) Introduction to Theatre: Theatre Performance, Grades 6-8 (285008ae) (semester)	<b>THEATRE</b> Introduction to Theatre: Technical Theatre, Grades 6-8 (285007ae) (semester) Technical Theatre II, Grade 7 (285007ac) Introduction to Theatre: Theatre Performance, Grades 6-8 (285008ae) (semester) Theatre I, Grade 7 (285007aa) Theatre II, Grade 7 (285007ab)	<b>THEATRE</b> Introduction to Theatre: Technical Theatre, Grades 6-8 (285007ae) (semester) Technical Theatre II, Grade 8 (285008ac) Introduction to Theatre: Theatre Performance, Grades 6-8 (285008ae) (semester) Theatre I, Grade 8 (285008aa) Theatre II, Grade 8 (285008ab)
<b>ART</b> Portfolio Arts I Fall, Grade 6 (100088ac) (semester) Portfolio Arts II Spring, Grade 6 (100088ad) (semester) Visual Art, Grade 6 (100088)	<b>ART</b> 2-D Art and Design (286007aa) (semester) 3-D Art and Design (286007ab) (semester) Digital Photography 7 (286007af) Media Arts Grades 7-8 (282008ad) Portfolio Arts I Fall, Grade 7 (286007ac) (semester) Portfolio Arts II Spring, Grade 7 (286007ad) (semester) Visual Art, Grade 7 (286007)	<b>ART</b> 2-D Art and Design (286008aa) (semester) 3-D Art and Design, Grade 8 (286008ab) (semester) Digital Photography 8 (286008ae) Media Arts Grades 7-8 (282008ad) Portfolio Arts I Fall, Grade 8 (286008ac) (semester) Portfolio Arts II Spring, Grade 8 (286008ah) (semester) Visual Art, Grade 8 (286008)

**CREATIVE WRITING, INTRO, GRADE 6 (802109an)**

*This is a non-audition course. This course introduces young writers to the basic elements of each genre, focusing on poetry and fiction.*

**CREATIVE WRITING I, GRADES 7-8 (802109az)**

*This is a non-audition course. 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.*

**CREATIVE WRITING II, GRADES 7-8 (802109ba)**

*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 for outside audiences.*

**BALLET, GRADE 6 (100119aa)****BALLET, GRADE 7 (281007aa)****BALLET, GRADE 8 (281008aa)**

*Students will study the techniques of movement and dance through ballet. Students must have previously taken Dance I or be able to demonstrate the fundamentals of ballet with teacher recommendation.*

**DANCE I, GRADE 6 (100118)****DANCE I, GRADE 7 (281007)****DANCE I, GRADE 8 (281008)**

*This is a non-audition class. Elements of dance and movement—time, space, and energy; movement safety; analyze and solve movement problems; improvisation; dance compositions; integrated studies; criticism; history.*

**DANCE II, LEVEL II, GRADE 7 (281007ad)****DANCE II, LEVEL II, GRADE 8 (281008ad)**

*This is a non-audition course. Students will study the elements dance and movement: time, space, and energy. Basic concepts of approaching work on the concert stage will be taught. Students must have previously taken Dance I or be able to demonstrate the fundamentals of jazz and ballet with teacher recommendation.*

**DANCE III, LEVEL II, GRADE 7 (281007ae)****DANCE III, LEVEL II, GRADE 8 (281008ae)**

*This is an audition based course for students who have mastered the basic fundamentals of dance. Students learn to differentiate between form and content. This course will emphasize more advanced concepts in performance and choreography.*

**JAZZ, GRADE 6 (100119ab)****JAZZ, GRADE 7 (281007ab)****JAZZ, GRADE 8 (281008ab)**

*Students will study the techniques of movement and dance through jazz. Students must have previously taken Dance I or be able to demonstrate the fundamentals of jazz with teacher recommendation.*

**TAP, GRADE 6 (100119ac)****TAP, GRADE 7 (281007ac)****TAP, GRADE 8 (281008ac)**

*Students will study the techniques of movement and dance through tap. Students must have previously taken Dance I or be able to demonstrate the fundamentals of ballet with teacher recommendation.*

**CLOWNS, GRADE 6 (100119ad)**

*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.*

**INTRODUCTION TO THEATRE: TECHNICAL THEATRE, GRADES 6—8 (285007ae) SEMESTER**

*This is a non-audition course. This course is for any 6—8 grader who has never taken a theatre course. The course will focus on basic performance and technical theatre skills, vocabulary, safety, and analyzing theatrical literature. Students will be able to identify basic building tools and techniques as well as basic acting methods. Students will also learn basic theatre etiquette and repertoire. A portion of the class will be focused on musical theatre techniques/repertoire and theatre history. Students are required to register for BOTH Introduction to Theatre: Technical Theatre AND Introduction to Theatre: Theatre Performance.*

**INTRODUCTION TO THEATRE: THEATRE PERFORMANCE, GRADES 6—8 (285008ae) SEMESTER**

*This is a non-audition course. This course is for any 6—8 grader who has never taken a theatre course. The course will focus on basic performance and technical theatre skills, vocabulary, safety, and analyzing theatrical literature. Students will be able to identify basic building tools and techniques as well as basic acting methods. Students will also learn basic theatre etiquette and repertoire. A portion of the class will be focused on musical theatre techniques/repertoire and theatre history. Students are required to register for BOTH Introduction to Theatre: Technical Theatre AND Introduction to Theatre: Theatre Performance.*

**THEATRE I, GRADE 7 (285007aa)****THEATRE I, GRADE 8 (285008aa)**

*This is a non-audition course. This course will focus on furthering acting skills, vocabulary and analyzing theatrical literature. Students will identify and actively use different acting methods. They will learn to use basic methods within scripted acting scenes. Students will also learn the basic of scriptwriting. The class will rehearse theatre etiquette and repertoire. A portion of the class will focus on musical theatre techniques/repertoire and theatre history. Students must have previously taken Introduction to Theatre or be able to demonstrate basic understanding of theatre and its components for instructor approval.*

**THEATRE II, GRADE 7 (285007ab)****THEATRE II, GRADE 8 (285008ab)**

*This is a non-audition course. This course will focus on furthering acting skills, vocabulary and analyzing theatrical literature. Students will identify and actively use Advanced acting methods. They will learn to use more challenging methods within scripted acting scenes. Students will collaborate to write a class play. The class will rehearse theatre etiquette and repertoire. A portion of the class will focus on musical theatre techniques/repertoire, marketing for theatre and theatre history. Students must have previously taken Theatre I or be able to demonstrate an intermediate understanding of theatre and its components. Instructor approval required.*

**TECHNICAL THEATRE I, GRADE 7 (285007ac)****TECHNICAL THEATRE I, GRADE 8 (285008ac)**

*This is a non-audition course. The course will focus on furthering 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. Students will rehearse theatre etiquette and a more challenging repertoire. Students must have previously taken Introduction to Theatre or be able to demonstrate a basic understanding of technical theatre and its components for instructor approval.*

**TECHNICAL THEATRE II, GRADE 7 (285007ad)****TECHNICAL THEATRE II, GRADE 8 (285008ad)**

*This is a non-audition course. Students must have a working knowledge of theatre basics and the discipline required to pursue the learning and application of more challenging technical requirements. The course will focus on advanced technical theatre skill, technical theatre vocabulary, safety and analyzing more advanced theatrical literature. The class will identify more advanced building tools/power tools and be able to utilize them properly to create their own designs. The class will be furthering their knowledge of design rules and applications that create effective/impactful theatrical work. Students will work collaboratively to develop scenery, lighting, sound, costumes, etc., as needed for all school productions. Students are expected to work school productions and events to gain real world experience within the technical theatre field. Students must have previously taken Technical Theatre I or be able to demonstrate intermediate understanding of technical theatre and its components for instructor approval.*

**2-D ART AND DESIGN, GRADE 6 (100088aa) SEMESTER****2-D ART AND DESIGN, GRADE 7 (286007aa) SEMESTER****2-D ART AND DESIGN, GRADE 8 (286008aa) SEMESTER**

*Students will focus on two-dimensional design and evaluation of artwork, art history and criticism, and problem-solving/communication with a variety of techniques. Students must register for BOTH 2-D Art and Design AND 3-D Art and Design. Students must have completed Visual Art or demonstrate basic knowledge of the elements of art and design for instructor approval.*

**3-D ART AND DESIGN, GRADE 6 (100088ab) SEMESTER**

**3-D ART AND DESIGN, GRADE 7 (286007ab) SEMESTER**

**3-D ART AND DESIGN, GRADE 8 (286008ab) SEMESTER**

*Students will focus on three-dimensional design and evaluation of artwork, art history and criticism, and problem-solving/communication with a variety of techniques. Students must register for BOTH 2-D Art and Design AND 3-D Art and Design. Students must have completed Visual Art or demonstrate basic knowledge of the elements of art and design for instructor approval.*

**DIGITAL PHOTOGRAPHY, GRADE 7 (286007af)**

**DIGITAL PHOTOGRAPHY, GRADE 8 (286008ae)**

*This special topic select course provides an opportunity for students to participate in classes focusing on digital photography.*

**MEDIA ARTS, GRADE 7-8 (282008ad)**

*This is an audition course that 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. Instructor approval required.*

**PORTFOLIO ARTS I FALL, GRADE 6 (100088ac) SEMESTER**

**PORTFOLIO ARTS I FALL, GRADE 7 (286007ac) SEMESTER**

**PORTFOLIO ARTS I FALL, GRADE 8 (286008ac) SEMESTER**

*This special topic select course provides an opportunity for students to participate in classes focusing on a specific area of art production. This course is offered to advanced level students who are self-motivated and seeking to develop a personal portfolio. Instructor approval required.*

**PORTFOLIO ARTS II SPRING, GRADE 6 (100088ad) SEMESTER**

**PORTFOLIO ARTS II SPRING, GRADE 7 (286007ad) SEMESTER**

**PORTFOLIO ARTS II SPRING, GRADE 8 (286008ag) SEMESTER**

*This special topic select course provides an opportunity for students to participate in classes focusing on a specific area of art production. This course is offered to advanced level students who are self-motivated and seeking to develop a personal portfolio. Instructor approval required.*

**VISUAL ART, GRADE 6 (100088)****VISUAL ART, GRADE 7 (286007)****VISUAL ART, GRADE 8 (286008)**

*This is a survey course for students who have not have a visual art class and for those who want to continue to explore and improve beginning techniques with visual art. Students will engage in the creative process to create meaningful visual art products. Students will make informed judgements about quality and improvement of visual artworks to come to draw informed conclusions about how people will relate to and interpret these works.*

**MIXED CHORUS II, GRADE 6 (283700ac)**

*This is an audition course for a select performance group who have successfully covered the fundamentals of singing. Students will engage in meaningful and purposeful music-making within the four Artistic Process: creating music (improvising, composing, arranging); performing music (with singing or with instruments); connecting music (to learning and experiences with the larger curriculum, other cultures and disciplines within and outside of the arts); responding to music (listening to and analyzing). In doing so, students will make sense of the following musical concepts: rhythm, melody, form, timbre, texture and harmony, style, unity and variety, tension and release, balance, and expression. Taught by a certified music teacher. Students must audition/attend Huntsville City Schools choral, solo, and ensemble events. Instructor approval required.*

**MIXED CHORUS II, GRADES 7 to 8 (283700ad)**

*This is an audition course for a select performance group who have successfully covered the fundamentals of singing. Students will engage in meaningful and purposeful music-making within the four Artistic Process: creating music (improvising, composing, arranging); performing music (with singing or with instruments); connecting music to learning and experiences with the larger curriculum, other cultures, and disciplines within and outside of the arts. In doing so, students will make sense of the following musical concepts: rhythm, melody, form, timbre, texture and harmony, style, unity and variety, tension and release, balance, and expression. Taught by a certified music teacher. Evening rehearsals and performances are mandatory. Students must audition/attend Huntsville City Schools choral, solo, and ensemble events. Instructor approval required as well as some Alabama State Choral events.*

**MIXED CHORUS III, GRADES 7 to 8 (283800ab)**

*This is an audition course for a select performance group who successfully practice the fundamentals of singing. Students will engage, through self-informed, personally-developed criteria, in meaningful and purposeful music-making within the four Artistic Process: creating music (improvising, composing, arranging); performing music (with singing or with instruments); connecting music to learning and experiences with the larger curriculum, other cultures, and disciplines within and outside of the arts. In doing so, students will make sense of the following musical concepts: rhythm, melody, form, timbre, texture and harmony, style, unity and variety, tension and release, balance, and expression. Taught by a certified music teacher. Evening rehearsals and performances are mandatory. Students must audition/attend Huntsville City Schools choral, solo, and ensemble events. Instructor approval required as well as some Alabama State Choral events.*

**MUSIC, LEVEL I GRADE 6 (100098)**

*This is a non-audition course. This course introduces beginning musicians to different musical styles with an emphasis on historical and social context through vocal and instrumental study. Performance experiences may be included.*

**MUSIC LEVEL I, GRADES 7 to 8 (283008aa)**

*This is a non-audition course. This course allows students to explore different musical styles with an emphasis on historical and social context through vocal and instrumental study. Performance experiences may be included.*



**ORCHESTRA, LEVEL I, GRADE 6 (283114ab)**

**ORCHESTRA, LEVEL I, GRADE 7 (283114ab)**

**ORCHESTRA, LEVEL I, GRADE 8 (283114ab)**

*This is a non-audition course for students with little to no instrumental music training with Violin, Viola, Cello, and/or Double Bass. Students focus on developing technique and rehearsal training. Performances are mandatory with some additional optional opportunities. State musicianship events are available for qualifying individuals and groups. A broad-spectrum of styles and collaborative ensembles address developmentally appropriate music standards through an integrated curriculum. Students prepare and work to reach an intermediate level of musicianship and performance decorum. Independent practice is strongly recommended.*

**ORCHESTRA, LEVEL II, GRADE 6 (283214ac)**

**ORCHESTRA, LEVEL II, GRADE 7 (283214ac)**

**ORCHESTRA, LEVEL II, GRADE 8 (283214ac)**

*This is an audition course for students with prior instrumental music training with Violin, Viola, Cello, and/or Double Bass. Students focus on improving technique and rehearsal training. Performances are mandatory with some additional optional opportunities. State musicianship events are available for qualifying individuals and groups. A broad-spectrum of styles and collaborative ensembles address music standards through an integrated curriculum. Students prepare and work to reach an advanced level of musicianship and performance decorum. Independent practice is expected. Instructor approval required.*

**ORCHESTRA, LEVEL III, GRADE 6 (283314ad)**

**ORCHESTRA, LEVEL III, GRADE 7 (283314ad)**

**ORCHESTRA, LEVEL III, GRADE 8 (283314ad)**

*This is an audition course for students who have completed ORCHESTRA, LEVEL II, or who have intermediate level music training with Violin, Viola, Cello, and/or Double Bass. Students focus on improving technique and rehearsal training. Performances are mandatory with some additional optional opportunities. State musicianship events are available for qualifying individuals and groups. A broad-spectrum of styles and collaborative ensembles address music standards through an integrated curriculum. Students prepare and work to reach an accelerated level of musicianship and performance decorum. Instructor approval required. Independent practice is requisite. Instructor approval required.*

**SHOW CHOIR, GRADES 7-8 (283605ab)**

*This is a select performance group who perform as a group. This group performs a variety of music and dance styles. Members sing while performing dance routines.*

**STARS, GRADES 7-8 (283605aa)**

*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.*

## Magnet Programs – Academy for Science and Foreign Language (ASFL)

6 <sup>th</sup> Grade	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
French (100138)	French Exploratory (270021)	French I (270023)
Spanish (100128)	Spanish Exploratory (270151)	Spanish I (270153)
Astronomy & Geology (101300aa)	Botanical Science (220005ad) semester	Interacting with Elements – Chemistry Lab (220005ag) semester
Science Explorers (101300ab) semester	Zoology & Dissection (220005ae) semester	Matter in Motion Physics Lab (220005af) semester
7 <sup>th</sup> and 8 <sup>th</sup> Grade		
Future City (220005ab)		
Robotics (802109aj)		

### **ASTRONOMY & GEOLOGY, GRADE 6 (101300aa)**

*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.*

### **BOTANICAL SCIENCE, GRADE 7 (220005ad) 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.*

### **INTERACTING WITH THE ELEMENTS - CHEMISTRY LAB, GRADE 8 (220005ag) 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 that 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 (220005ab)**

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

**MATTER IN MOTION - PHYSICS LAB, GRADE 8 (220005af) 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. While great for anyone, this course is meant to supplement the physics unit of the physical science curriculum.*

**ROBOTICS, GRADE 7-8 (802209bj)**

*A one credit course 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.*

**SCIENCE EXPLORERS, GRADE 6 (101300ab) 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.*

**ZOOLOGY AND DISSECTION, GRADE 7 (220005ae) 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.*

*\*Students will study the same world language for all years 6<sup>th</sup>-8<sup>th</sup> grade.*

**FRENCH, GRADE 6 (100138)****FRENCH EXPLORATORY, GRADE 7 (270021)****FRENCH I (270023)**

*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 (100128)****SPANISH EXPLORATORY, GRADE 7 (270151)****SPANISH I (270153)**

*Listening, speaking, reading, and writing skills involving familiar topics; understanding and responding to simple expressions; writing using learned vocabulary; introduction to Spanish-speaking cultures.*

## Magnet Programs – Williams School

6 <sup>th</sup> Grade	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
STEAM I, Grade 6 (801210ad)	STEAM II, Grade 7 (802210ae)	STEAM III, Grade 8 (802210ac)
AGT Piano Lab, Grade 6 (284102aa)	AGT Piano Lab II, Grades 7-8 (284202aa)	AGT Piano Lab II, Grades 7-8 (284202aa)
Spanish (100128)	AGT Piano Lab II, Grades 7-8 (284202ab) (semester)	AGT Piano Lab II, Grades 7-8 (284202aa) (semester)
AGT English 6, Honors (100030aa)	AGT Piano Lab III, Grades 7-8 (284302aa)	AGT Piano Lab III, Grades 7-8 (284302aa)
AGT Science 6, Honors (100040aa)	AGT Spanish, Grade 7 (270151ac)	AGT Spanish, Grade 8 (270152ab)
AGT Spanish, Grade 6 (100128aa)	AGT English 7, Honors (200002aa)	AGT English 8, Honors (200004aa)
AGT English 6, Honors (100030aa)	AGT Math 7, Honors (210002aa)	AGT Algebra I (210005ac)
AGT Math 6 (100020)	AGT Life Science 7, Honors (220002aa)	AGT Physical Science 8, Honors (230004aa)
AGT Earth and Space Science 6, Honors (100040aa)	AGT Civics, Honors (230004aa) (semester)	AGT World History to 1500, Honors (230012aa)
AGT Social Studies 6, Honors (100050aa)	AGT Geography, Honors (230002aa) (semester)	

### **STEAM I, GRADE 6 (801210ad)**

*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 (802109ed)**

*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.*

### **STEAM III, GRADE 8 (802210ac)**

*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 PIANO LAB I, GRADE 6 (284102aa)**

### **AGT PIANO LAB II, GRADES 7-8 (284202aa)**

### **AGT PIANO LAB III, GRADES 7-8 (284302aa)**

*AGT Piano Lab courses provide students differentiated piano and music instruction in a group setting and addresses all skill levels. The course introduces piano and music for those who have little to no experience or need a review of the basics. Students will learn how to read music, find notes on the piano and other essentials. More advanced students will have the opportunity to receive individualized instruction, support in preparation for private study, and composition opportunities. Group piano class provides students with an excellent introduction to the keyboard and prepares them for more serious private study as well as playing in a band or ensemble.*

#### *Piano Lab II (284202ab)*

*AGT Piano Lab courses provide students differentiated piano and music instruction in a group setting and addresses all skill levels. The course introduces piano and music for those who have little to no experience or need a review of the basics. Students will learn how to read music, find notes on the piano and other essentials. More advanced students will have the opportunity to receive individualized instruction, support in preparation for private study, and composition opportunities. Group piano class provides students with an excellent introduction to the keyboard and prepares them for more serious private study as well as playing in a band or ensemble.*

#### *Piano Lab III (284302aa)*

*AGT Piano Lab courses provide students differentiated piano and music instruction in a group setting and addresses all skill levels. The course introduces piano and music for those who have little to no experience or need a review of the basics. Students will learn how to read music, find notes on the piano and other essentials. More advanced students will have the opportunity to receive individualized instruction, support in preparation for private study, and composition opportunities. Group piano class provides students with an excellent introduction to the keyboard and prepares them for more serious private study as well as playing in a band or ensemble.*

### **AGT SPANISH, GRADE 6 (100128aa)**

### **AGT SPANISH, GRADE 7 (270151ac)**

### **AGT SPANISH, GRADE 8 (270152ab)**

*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.*

**AGT ENGLISH 6, HONORS (100030aa)**

*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.*

**AGT ENGLISH 7, HONORS (200002aa)**

*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.*

**AGT ENGLISH 8, HONORS (200004aa)**

*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 (100020)**

*Advanced work in mathematical computation, problem solving skills, and other mathematical concepts.*

**AGT MATH 7, HONORS (210002aa)**

*Advanced work in computational fluency of integers; problem-solving skills; basic geometric shapes and figures; basic algebra concepts and skills, including algebraic expressions and linear equations; properties of rational numbers; basic probability and statistics; and proportional reasoning.*

**AGT ALGEBRA I (210005ac)**

*This course focuses on a study of fundamental structures of the real number system. Attention will be given to the algebraic properties and operations throughout the course. Applications will be integrated into all topics. Appropriate use of technology allows students opportunities to work to improve concept development. Thus, students are empowered to perform mathematically, both with and without the use of technological tools. Algebra I is a college preparatory course as well as a course for those who are considering post-secondary education in technical or trade fields.*

### **AGT EARTH AND SPACE SCIENCE 6, HONORS (100040aa)**

*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 (220002aa)**

*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 (220002aa)**

*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 6, HONORS (100050aa)**

*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 7, HONORS (230004aa) 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 7, HONORS (230002aa) 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 (230012aa)**

*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.*



## Mathematics

6 <sup>th</sup> Grade	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
Mathematics, Grade 6 (100018)	Mathematics, Grade 7 (210001)	Mathematics, Grade 8 (210003ab)
Mathematics, Grade 6, Honors (100020)	Mathematics, Honors, Grade 7 (210002)	Algebra I, (210005)
Mathematics Intervention (100019)	Algebra I, (210005)	Geometry, Honors (210011)
7 <sup>th</sup> and 8 <sup>th</sup> Grades		
Mathematics Intervention (210033aa)		
Math Elective (Math Team) (210035)		

### **MATHEMATICS, GRADE 6 (100018)**

*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 INTERVENTION, GRADE 6 (100019)**

*Remedial work in mathematics. (Requires approval of counselor)*

### **MATHEMATICS, GRADE 6, HONORS (100020)**

*Advanced work in mathematical computation, problem solving skills, and other mathematical concepts.*

### **MATHEMATICS, GRADE 7 (210001)**

*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, HONORS, GRADE 7 (210002)**

*Advanced work in computational fluency of integers; problem-solving skills; basic geometric shapes and figures; basic algebra concepts and skills, including algebraic expressions and linear equations; properties of rational numbers; basic probability and statistics; and proportional reasoning.*

**MATHEMATICS, GRADE 8 (210003ab)**

*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.*

**ALGEBRA I (210005)**

**Grades:** 7-8    **Credit:** 1.0

**Prerequisite(s):** none

*This course focuses on a study of fundamental structures of the real number system. Attention will be given to the algebraic properties and operations throughout the course. Applications will be integrated into all topics. Appropriate use of technology allows students opportunities to work to improve concept development. Thus, students are empowered to perform mathematically, both with and without the use of technological tools. Algebra I is a college preparatory course as well as a course for those who are considering post-secondary education in technical or trade fields.*

**GEOMETRY, HONORS (210011)**

**Grades:** 8                      **Credit:** 1.0

**Prerequisite(s):** Algebra I

This is a fast-paced course that covers advanced concepts to prepare students for AP Calculus. Rigorous development of the formal representation of logical arguments is emphasized. Problem-solving skills in the development of geometric concepts are integrated throughout the course. This course is weighted 5 points on a 100-point scale.

**MATHEMATICS INTERVENTION, GRADES 7-8 (210033aa)**

*Remedial work in mathematics. (Requires approval of counselor.)*

**MATH ELECTIVE, GRADES 7-8 (210035)**

*This course is designed for highly motivated math students who plan to participate in math team activities.*

## Music

6 <sup>th</sup> Grade	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
Concert Band I (283100aa)	Concert Band I (283100aa)	Concert Band III (283300aa)
Mixed Chorus I (283600aa)	Concert Band II (283200aa)	
7 <sup>th</sup> and 8 <sup>th</sup> Grades		
	Mixed Chorus I (283600ab)	
	Mixed Chorus II (283700ab)	
	Mixed Chorus III (283800ab)	

### **CONCERT BAND I (283100aa)**

*This is a one credit course, novice level, designed for 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 literature and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.*

### **CONCERT BAND II (283200aa)**

**Prerequisite(s):** Concert Band I or approval of the instructor

*This is a one credit course, intermediate level, designed for 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 literature and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.*

### **CONCERT BAND III (283300aa)**

**Prerequisite(s):** Concert Band II or approval of the instructor

*This is a one credit course, proficient level, designed for 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 literature and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.*

### **MIXED CHORUS I (283600ab)**

*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.*

**MIXED CHORUS II (283700ab)**

*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.*

**MIXED CHORUS III (283800ab)**

*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.*

## Peer Helper

### **PEER HELPER, GRADES 7-8 (802107)**

*Supervised tutoring services offered by students.*

## Physical Education

### **PHYSICAL EDUCATION, GRADE 6 (100058)**

*Refinement of fundamental motor skills integrated with a variety of movement concepts taught by a certified physical education specialist.*

### **PHYSICAL EDUCATION, GRADE 7 (240001)**

### **PHYSICAL EDUCATION, GRADE 8 (240001aa)**

*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 7<sup>th</sup> and 8<sup>th</sup> grade students at all HCS middle grades schools.*

### **DESIGN AND MODELING - PLTW (560001) 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 (560003) 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 (560005) 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 (560023) 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 (560029) 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 (560032) (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.*



## Science

6 <sup>th</sup> Grade	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
Science (100038)	Life Science (220001)	Physical Science (220003)
Science, Honors (100040)	Life Science, Honors (220002)	Physical Science, Honors (220004)

### **SCIENCE, GRADE 6 (100038)**

Scientific process and application skills; weather; Earth's surface; water and carbon cycles; plate tectonic theory; hydrosphere; lithosphere; Earth's biomes; heating and cooling of the Earth; moon phases; components of the universe.

### **SCIENCE, HONORS, GRADE 6 (100040)**

*Advanced work in scientific processes, knowledge, and application; scientific principles, observation, and experimentation in life, physical and earth sciences.*

### **LIFE SCIENCE, GRADE 7 (220001)**

*Scientific process and application skills; characteristics of living things; cells; body systems (7); classification; photosynthesis; cellular respiration; change over time; ecology; genetics.*

### **LIFE SCIENCE, HONORS, GRADE 7 (220002)**

*Advanced work in the scientific process and application skills; characteristics of living things; cells; body systems (7); classification; photosynthesis; cellular respiration; change over time; ecology; genetics.*

### **PHYSICAL SCIENCE, GRADE 8 (220003)**

*Scientific process and application skills, atomic structure, matter, bonding, solutions, Newton's laws, simple machines, energy, waves.*

### **PHYSICAL SCIENCE, HONORS, GRADE 8 (220004)**

*Advanced work in the scientific process and application skills, atomic structure, matter, bonding, solutions, Newton's laws, simple machines, energy, waves.*

## Social Studies

6 <sup>th</sup> Grade	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
Social Studies (100048)	Civics (230003) (semester)	World History to 1500 (230011)
Social Studies, Honors (100050)	Civics, Honors (230004) (semester)	World History to 1500, Honors (230012)
	Geography (230001) (semester)	
	Geography, Honors (230002) (semester)	

### **SOCIAL STUDIES, GRADE 6 (100048)**

*United States History from the Industrial Revolution to the present.*

### **SOCIAL STUDIES, HONORS, GRADE 6 (100050)**

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

### **CIVICS, GRADE 7 (230003) SEMESTER**

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

### **CIVICS, HONORS, GRADE 7 (230004) 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 (230001) SEMESTER**

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

### **GEOGRAPHY, HONORS, GRADE 7 (230002) SEMESTER**

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

### **WORLD HISTORY TO 1500, GRADE 8 (230011)**

*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 (230012)**

*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.*

## Additional Electives

8 <sup>th</sup> Grade
Introduction to Cyber Security (520041) Video Production (802109ac) Video Production (802109ab) (semester)
7 <sup>th</sup> - 8 <sup>th</sup> Grades
Computer Science Discoveries (520045) Introduction to Web Page Design (802109ae) Introduction to Web Page Design (802109ad) (semester) School Publications (802200) School Publications (802200ad) (semester) Service Learning (802200ab) (semester) Introduction to Greenpower (590305) * Greenpower Intermediate (510007) * Project Based Learning Using History (802200ai) * The Game of Life (802200ah) (semester)* The Game of Life II (802200al) (semester)*
*Location of schools where courses are offered is listed with course description.

### **COMPUTER SCIENCE DISCOVERIES, GRADES 7-8 (520045)**

*Computer Science Discoveries is a full-year introductory computer science survey course for students in Grades 6-8. 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 CYBER SECURITY, GRADE 8 (520041)**

*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 (802109ae)**

### **INTRODUCTION TO WEB PAGE DESIGN, GRADES 7-8 (802109ad) SEMESTER**

*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 (802202)**

### **SCHOOL PUBLICATIONS, GRADES 6-8 (802202ad) SEMESTER**

*Assisting in production/maintenance of school publications, e.g., Yearbook, Newspaper, E-papers, Web site maintenance, Newsletter.*

### **SERVICE LEARNING, GRADES 7-8 (802200ab) SEMESTER**

*Enhanced learning activities focused on service learning*

### **VIDEO PRODUCTION, GRADE 8 (802109ac)**

#### **VIDEO PRODUCTION, GRADE 8 (802109ab) SEMESTER**

*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 (590305) \***

**Location(s) Offered:** Challenger, McNair, Mountain Gap, and Whitesburg only

*This course is for first year Greenpower students.*

### **GREENPOWER INTERMEDIATE, GRADE 8 (510007) \***

**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 (802200ai) \***

**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 complete at the local level, with 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.*

### **THE GAME OF LIFE, GRADES 7- 8 (802200ah) SEMESTER**

**Location(s) Offered:** Challenger Middle, Hampton Cove, and Huntsville Junior High

*This is an enrichment class for students to learn and practice 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, jobs 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 (802200al) 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, child care, 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.*

## Special Education

<b>6<sup>th</sup> Grade</b>	<b>7<sup>th</sup> Grade</b>	<b>8<sup>th</sup> Grade</b>
Reading, Basic Skills (600320)	Reading, Basic Skills (600330)	Reading, Basic Skills (600340)
English Language Arts, Basic Skills (600321)	English Language Arts, Basic Skills (600331)	English Language Arts, Basic Skills (600341)
Mathematics, Basic Skills (600322)	Mathematics, Basic Skills (600332)	Mathematics, Basic Skills (600342)
Science, Basic Skills (600323)	Science, Basic Skills (600333)	Science, Basic Skills (600343)
Social Studies, Basic Skills (600324)	Social Studies, Basic Skills (600334)	Social Studies, Basic Skills (600344)
AAS: Reading 6 (600416)	AAS: Reading 7 (600417)	AAS: Reading 8 (600418)
AAS: English Language Arts 6 (600436)	AAS: English Language Arts 7 (600437)	AAS: English Language Arts 8 (600438)
AAS: Mathematics 6 (600456)	AAS: Mathematics 7 (600457)	AAS: Mathematics 8 (600458)
AAS: Science 6 (600476)	AAS: Science 7 (600477)	AAS: Science 8 (600478)
AAS: Social Studies 6 (600496)	AAS: Social Studies 7 (600497)	AAS: Social Studies 8 (600498)
AAS: Life Skills 6 (600507)	AAS: Life Skills 7 (600510)	AAS: Life Skills 8 (600511)
AAS: Pre-Vocational 6 (600516)	AAS: Pre-Vocational 7 (600519)	AAS: Pre-Vocational 8 (600520)
AAS: Vocational 6 (600525)	AAS: Vocational 7 (600529)	AAS: Vocational 8 (600530)
AAS: Community Based Instruction 6 (600535)	AAS: Community Based Instruction 7 (600539)	AAS: Community Based Instruction 8 (600540)
	AAS: Elective 7 (600549)	AAS: Elective 8 (600550)
<b>6<sup>th</sup> to 8<sup>th</sup> Grade</b>		
Hearing Impairment (600003)		
Speech and Language Impairment (600005)		

## Student Aide

### **STUDENT AIDE (OFFICE, LIBRARY, GUIDANCE ONLY), GRADE 8 (802106)**

*Students develop leadership skills while assisting staff in the main office, guidance office, or library.*