

Grade 6 Required Coursework

Math 6

Mathematics grade six standards are made up of five strands: Number Sense; Computation; Algebra and Functions; Geometry and Measurement; and Data Analysis and Statistics. The skills listed in each strand indicate what students in grade six should know and be able to do in mathematics. Grade six begins the transition from the heavy emphasis on numbers and operations at the elementary school level towards a more formalized understanding of mathematics that occurs at the high school level. Students connect previous knowledge of multiplication, division, and fractions to ratios and proportional relationships; extend previous understanding of the number system and operations to fractions and negative numbers; apply and extend previous understandings of the number line to plot coordinate pairs on a Cartesian (coordinate) plane; formalize algebraic thinking into algebraic expressions, equations, and inequalities; apply their previous knowledge of geometry in real world and mathematics situations; and begin to develop understanding of statistical variability and distributions. Using the Process Standards for Mathematics in a planned and deliberate method to present the mathematics content standards will prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of the mathematics. Math 6 at Monrovia Middle School utilizes **Illustrative Math Curriculum**.

English Language Arts 6 (Literature and Grammar)

Students will read and respond to a variety of texts and text formats including novels, short stories, poetry, drama, nonfiction articles, infographics, podcasts, and videos. Students will focus on comprehension of the texts and applying that comprehension to a variety of writing skills and tasks including summarization, single-paragraph responses, multimedia presentations, and multi-paragraph expository, argumentative, and narrative writings. Students will also analyze texts for a variety of author choices including figurative language and other word choice, flashbacks, foreshadowing, repetition, and symbolism. When reading literature, students will consider potential theme statements and consider how those bigger ideas of theme are developed and supported throughout the text and its various story elements. Students will continue to develop and understand grade appropriate vocabulary by learning Greek and Latin affixes and vocabulary containing those affixes. Students will also have opportunities to apply that new knowledge, along with context clues, to other unfamiliar words. Students will continue to develop grammar skills as they relate to pronoun use and to

different types of phrases and clauses, including the appropriate punctuation of phrases and clauses, and appropriate use and placement of phrases and clauses. **ELA and Grammar classes utilize NoRedInk, novel and author studies, and Smekens Comprehension for curriculum.**

Science 6

Students in grade six model the relationships between time and position when describing motion. Students investigate the transfer of potential and kinetic energy. Students investigate properties of waves, including light, sound, and other energies. Students explore the relationships between celestial bodies and the force that keeps them in regular and predictable motion. Students describe the complex relationships that exist between organisms in all ecosystems and they understand that the major source of energy for all ecosystems is the sun. The science and engineering processes and engineering opportunities are integrated with content throughout the course. Along with the current academic standards, the Science/Technical Studies Content Area Literacy Standards are incorporated in the teaching of this subject with the expectation of a continuum of reading and writing skills development. At Monrovia Middle School Science teachers utilize **LabAids** for curriculum.

Social Studies 6

Students in grade six will explore the key historic movements, events and figures that contributed to the development of modern Europe and America from early civilizations through modern times by examining religious institutions, trade and cultural interactions, political institutions, and technological developments. Students will compare and contrast forms of government in different historical periods with contemporary political structures of Europe and the Americas and examine the rights and responsibilities of individuals in different political systems. Students will be able to identify the characteristics of climate regions in Europe and the Americas and describe major physical features, countries and cities of Europe and the Western Hemisphere. Students will examine the influence of physical and cultural factors upon the economic systems of countries in Europe and the Americas. At Monrovia Middle School six graders will be provided with **McGraw-Hill Discovering Geography: Western Hemisphere** for social studies curriculum.

Grade 6 Electives

Students must select one elective for the year

Instrumental Music 6 (full year course)

The 6th grade introductory Instrumental Music Course is for students interested in learning music concepts and how to play a musical instrument. Instruments are required; those who do not have an instrument will select a school-owned instrument based on availability and a *rental contract and end of year cleaning will be required*. *Accent on Achievement Book 1* is required for the course. Students will be expected to participate in class every day. Student grades are based on class participation, test, outside performances, and understanding of music concepts.

Vocal Music 6 (full year course)

This course for 6th graders provides opportunities for students to develop their musical potential and aesthetic understanding through a choral approach. Study includes the care and cultivation of a beautiful tone, musical awareness, the ability to read music, the building of technical skills, team spirit and responsible rehearsal habits. Students will strengthen listening skills and their ability to analyze and evaluate music performances. Attention will also be given to relating their music experiences to personal development; class expectations include participation in 3 outside performances.

Grade 7 Required Coursework

Math 7

Mathematics grade seven standards are made up of five strands: Number Sense; Computation; Algebra and Functions; Geometry and Measurement; and Data Analysis, Statistics, and Probability. The skills listed in each strand indicate what students in grade seven should know and be able to do in mathematics. Grade seven continues the trajectory towards a more formalized understanding of mathematics that occurs at the high school level that began in grade six. Students extend ratio reasoning to analyze proportional relationships and solve real-world and mathematical problems; extend previous understanding of the number system and operations to perform operations using all rational numbers; apply properties of operations in the context of algebraic expressions and equations; draw, construct, describe, and analyze geometric figures and the relationships between them; apply understandings of statistical variability and distributions by using random sampling, making inferences, and investigating chance processes and probability models. Students at Monrovia Middle School will be provided with **Illustrative Math** curriculum.

English Language Arts 7

Students will read and respond to a variety of texts and text formats including novels, short stories, poetry, drama, nonfiction articles, infographics, podcasts, and videos. Students will focus on comprehension of the texts and applying that comprehension to a variety of writing skills and tasks including summarization, single-paragraph responses, multimedia presentations, and multi-paragraph expository, argumentative, and narrative writings. Students will also analyze texts for a variety of author choices including figurative language and other word choice, flashbacks, foreshadowing, repetition, and symbolism. When reading literature, students will consider potential theme statements and consider how those bigger ideas of theme are developed and supported throughout the text and its various story elements. Students will continue to develop and understand grade appropriate vocabulary by learning Greek and Latin affixes and vocabulary containing those affixes. Students will also have opportunities to apply that new knowledge, along with context clues, to other unfamiliar words. Students will continue to develop grammar skills as they relate to pronoun use and to different types of phrases and clauses, including the appropriate punctuation of phrases and clauses, and appropriate use and placement of phrases and clauses.

Science 7

Students in grade seven discover that energy cannot be created or destroyed, but only changed from one form into another or transferred from place to place. Students

investigate energy in relationship to solids, liquids, gasses, and heat transfer. Students examine and describe how earth processes have shaped the topography of the earth and have made it possible to measure geological time. Students investigate the natural processes of the earth and understand how the earth is constantly changing. Students probe the cellular structure of living organisms, from single-celled to multicellular. The science and engineering processes as well as engineering opportunities are integrated with content throughout the course. Along with the current academic standards for this subject, the Science/Technical Studies Content Area Literacy Standards are incorporated with the expectation of a continuum of reading and writing skills development. Students at Monrovia Middle School are provided with **LabAids Curriculum in Science 7**.

Social Studies 7

Students in grade seven explore the history, geography, government, economic systems, current issues, and cultures of the Eastern World including Asia, Africa, and Oceania. Topics covered include Ancient Civilizations, World Religions, Imperialism, and the Modern World. The goal of the course is to get students to think critically about history and develop certain historical habits of mind through inquiry and analysis. At Monrovia Middle School students in grade 7 will be provided with **McGraw-Hill Our Past: Discovering US History** for social studies curriculum.

Project Lead the Way

Project Lead the Way provides students with hands-on, problem-based learning opportunities to develop, produce, use, and assess products related to engineering and technology. Students additionally develop individual and teamwork skills to participate in society and the workplace.

Physical Fitness and Wellness Grade 7

This course is designed to introduce students to basic concepts and principles of physical, recreation, and sport activities. Emphasis is placed on demonstrating good sportsmanship and character qualities, gaining knowledge, practicing appropriate behaviors for co-ed physical activities, using good judgment and contributing to team and class goals. Basic skill development and learning game rules and strategies will also be part of the course. Evaluations will be both skill based and knowledge based in nature.

Grade 7 Electives

Students must select one elective course for the year

Instrumental Music (Band) 7

The 7th grade Instrumental Music Course is for students interested in music concepts and possible instrument usage. Instruments are required; those who do not have an instrument will have an instrument assigned by the director based on availability. A rental contract and end of year cleaning will be required on school owned instruments. *Accent on Achievement Book 1* is required for the course. Students will be expected to participate in class every day. Student's grades are based on class participation, tests, outside performances, and understanding of music concepts.

Vocal Music (Choir) 7

This course provides opportunities for 7th grade students to develop their musical potential and aesthetic understanding through a choral approach. Study includes the care and cultivation of a beautiful tone, musical awareness, the ability to read music, the building of technical skills, team spirit, and responsible rehearsal habits. Students will strengthen listening skills and their ability to analyze and evaluate music and music performances. Attention will also be given to relating their music experiences to personal development; class expectations include participation in 3 outside performances.

Art 7

This course is designed to further develop a student's art skills, techniques, and vocabulary, with an emphasis on the Elements of Arts. Students will be creating and maintaining a sketch book with homework assignments, Students will further develop drawing skills and techniques, explore assorted 2 dimensional and 3 dimensional artwork, be introduced to ceramics and techniques, and gain knowledge of art history and aesthetics. Students will be asked to evaluate and assess their own knowledge, progress, and level of proficiency.

Grade 8 Required Coursework

Math 8 or Algebra 1*

Mathematics grade eight standards are made up of five strands: Number Sense; Computation; Algebra and Functions; Geometry and Measurement; and Data Analysis, Statistics, and Probability. The skills listed in each strand indicate what students in grade eight should know and be able to do in mathematics. Grade eight continues the trajectory towards a more formalized understanding of mathematics that occurs at the high school level that was started in grades 6 and 7. Students extend their understanding of rational numbers to develop an understanding of irrational numbers; connect ratio and proportional reasoning to lines and linear functions; define, evaluate, compare, and model with functions; build understanding of congruence and similarity; understand and apply the Pythagorean Theorem; and extend their understanding of statistics and probability by investigating patterns of association in bivariate data. At Monrovia Middle School students in Math 8 are provided with **Illustrative Math** curriculum.

Algebra 1

Credits: 1 credit/semester

Algebra I provides a formal development of the algebraic skills and concepts necessary for students who will take other advanced college-preparatory courses. Algebraic skills are used in a wide range of problem solving situations and the concept of function is emphasized throughout the course. Topics include: properties of real numbers, solution sets, basic operations with polynomials, solving quadratic equations and systems, use of exponents, introductory topics from statistics and probability, graphing linear equations and systems, spatial drawings, and calculation of area, volume and perimeter of geometric figures.

English Language Arts

Reading and Literature, grade eight, based on Indiana's Academic Standards for English/Language Arts, is integrated instruction emphasizing reading, in content that is interesting and age-appropriate. Students begin to study the history and development of English vocabulary. Students begin to compare different types of writing as well as different perspectives on similar topics or themes. Students evaluate the logic of informational texts and analyze how literature reflects the backgrounds, attitudes, and beliefs of the authors. Students read and respond to fiction selections, such as classic and contemporary literature, historical fiction, fantasy or science fiction, mystery or adventure, folklore or mythology, poetry, short stories, and dramas. Their reading/listening lists also include nonfiction selections, such as subject area books,

biographies or autobiographies, magazines and newspapers, various reference or technical materials, and online information. Students self-select books of interest and read independently for enjoyment.

Science 8

Students in grade eight understand how atomic structure determines chemical properties and how atoms and molecules interact. Students explain how the water cycle and air movement are caused by differential heating of air, land, and water and how these affect weather and climate. Students understand that natural and human events change the environmental conditions on the earth. Students understand the predictability of characteristics being passed from parent to offspring. Students will understand how a particular environment selects for traits that increase survival and reproduction by individuals bearing those traits. Students evaluate the evidence of evolution and relationships/categorization among organisms. The science and engineering processes as well as engineering opportunities are integrated with content throughout the course. Along with the current academic standards for this subject, the Science/Technical Studies Content Area Literacy Standards are incorporated with the expectation of a continuum of reading and writing skills development. Science 8 utilizes **LabAids** for science curriculum.

Social Studies Grade 8

Students in grade eight focus on the first half of our United States History. Students chronologically study the history of the United States starting with early exploration to the Americas, early European settlement in North America, the American Revolution, the development of our nation's government, westward expansion, social reform movements, the Civil War and Reconstruction. Students learn about various conflicts, challenges and compromises that make our nation what it is today. Students at Monrovia Middle School are provided with **McGraw-Hill Our Past: Discovering US History** in Social Studies 8.

Physical Education I & II (Full year)*

Credits: 1 credit/semester High School Level Course

Physical Education I emphasizes health-related fitness and developing skills and habits necessary for a lifetime of activity. This program includes the application of rules and strategies in the following: health-related fitness activities, cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition, aerobic exercise, team sports, individual and dual sports, outdoor activities, gymnastics, and recreational games. Assessment includes both written and performance-based skill evaluations.

Physical Education II emphasizes a personal commitment to lifetime activity and fitness

for enjoyment, challenge, self-expression, and social interaction. This course provides students with opportunities to achieve and maintain a health-enhancing level of physical fitness and increase their knowledge of fitness concepts. It includes at least three different activities beyond those offered in P.E. Assessment includes both written and performance-based skill evaluations.

Grade 8 Electives

All electives are high school credit bearing courses and will be held in the high school.

French 1 (Full year)

Credits: 1 credit/semester

French I enables students to discuss the many reasons for learning languages and to develop an understanding of the people who speak them. Students are able to apply effective strategies for language learning and show a willingness to experience various aspects of the cultures. The course provides students with opportunities to respond orally to directions and commands, understand and use appropriate forms of address, ask and answer simple questions, read isolated words and short texts on simple topics, understand brief written directions and write familiar words and phrases using the French language. *Students who choose and are selected to take French I will be expected to take French courses throughout their high school career.*

Introduction to Agriculture (Full year)

Credits: 1 credit/semester

Introduction to Agriculture is a two semester course that is highly recommended as a prerequisite to and a foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to the fundamentals of agricultural science and business. Topics to be covered include: animal science, plant and soil science, food science, horticultural science, agricultural business management, landscape management, natural resources, agriculture power, structure, and technology, careers in agriculture, leadership, and supervised agricultural experience. An activity and project based approach is used along with team building to enhance the effectiveness of the student learning activities. Career and Technical Student Organizations are considered a powerful instructional tool when integrated into Career and Technical Education courses. They enhance the knowledge and skills students learn in a course by allowing a student to participate in a unique program of career and leadership development. Students in this course should be encouraged to participate in FFA. Selection is based on student interest and teacher recommendation.
*Counts as an elective for all diplomas.

Introduction to 2- and 3-Dimensional Art (Full year)

Credits: 1 credit/semester

This course is a beginning level art course. It is the prerequisite for all the remaining art courses.

Students will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. Additionally, students will search for meaning, significance, and direction in two-dimensional and three-dimensional art and artifacts. This will be accomplished through in-depth historical study, critically examining current works and trends, responding to their personal questions about the nature of art, and the production of works of art. Specific areas of study will include elements of principles of design, perspective drawing, painting and drawing in a variety of mediums, and paper stencil silk-screen printing. After successful completion of this course, and the three-dimensional art course, a student may take as many art courses a semester as their schedule will allow. Students must have earned an A or B in Art 7 to be eligible.

Intermediate Choir (Full year)

Credits: 1 credit/semester

Intermediate Choir provides students with opportunities to develop musicianship and specific performance skills through ensemble and solo singing. Activities create the development of quality repertoire in the diverse styles of choral literature which is appropriate in difficulty and range for the students. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Chorus provides instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. Students will develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Intermediate Choir is a performance group. Out-of-school commitments are required. Group performs at school concerts 3 or 4 times yearly. Chorus performs at I.S.S.M.A. contest. Failure to attend performances will result in receiving a failing grade for that performance and possible removal from the class.

Advanced Chorus (Full year)

Credits: 1 credit/semester

Students taking Advanced Chorus develop musicianship and specific performance skills through ensemble and solo singing. Activities create the development of a quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Chorus

classes provide instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. Students will develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Advanced Chorus's enrollment is based on successful audition and is a performance group. Out-of-school commitments are required. Group performs at school concerts, community activities, and various contests. Students are required to participate the entire school year. Failure to attend performances will result in receiving a failing grade for that performance and possible removal from the class.