

# Marshall Middle School

## Seventh Grade Standards Guide

Each category is indicated below along with the essential standards associated. This document is intended to be an outline of what we want students to know and be able to do by the end of Grade 7.

### Language Arts

#### Reading Literature

- Read closely to determine what the text says explicitly.
- Make logical inferences from the text.
- Cite specific textual evidence to support conclusions.
- Determine a theme or central idea of a text and analyze its development over the course of the text.
- Provide an objective summary of the text.
- Analyze how particular elements of a story or drama interact.
- Determine the meaning of words and phrases as they are used in a poem, drama, or story.
- Analyze the structure of texts and how they relate to each other and the whole.
- Analyze how an author develops and contrasts the point of view of different characters or narrators.
- Compare and contrast a written story, drama, or poem to its audio, filmed, staged, or multimedia version.
- Compare and contrast a fictional portrayal of a time, place, or character and a historical account of the same period.
- Read and comprehend literature proficiently and independently.

#### Reading Informational Text

- Read closely to determine what the text says explicitly.
- Make logical inferences from the text.
- Cite specific textual evidence to support conclusions.
- Determine a central idea of a text and analyze its development over the course of the text.
- Provide an objective summary of the text.
- Analyze how and why individuals, events, and ideas develop and interact over the course of a text.
- Determine the meaning of words and phrases as they are used in a text.
- Analyze the structure an author uses to organize a text.
- Determine an author's point of view or purpose in a text.
- Evaluate an argument and specific claims in a text.
- Analyze how two or more texts address similar topics.
- Read and comprehend informational text proficiently and independently.

#### Writing

- Write arguments to support claims using valid reasoning and evidence.

#### *(Language Arts continued)*

- Write informative/explanatory texts to convey ideas and information clearly.
- Write narratives and other creative texts to effectively develop real or imagined experiences or events.
- Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
- Use a writing process to develop and strengthen writing.
- Use technology, including the internet, to produce writing.
- Conduct short research projects based on focused questions using multiple sources.
- Write routinely over extended and shorter time frames.

#### Language

- Demonstrate command of the conventions of standard English grammar and usage when writing and speaking.
- Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.
- Apply knowledge of language to make effective choices for meaning or style, and to comprehend more fully when reading, writing, or listening.
- Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials.
- Demonstrate understanding of figurative language, word relationships and nuances in word meanings.
- Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level.

### Math

#### Numbers and Operations

- Compare using  $<$ ,  $>$ ,  $=$ ,  $\geq$ ,  $\leq$ .
- Find equivalent forms of rational numbers.
- Understand opposites.
- Graph rational numbers on a number line and pairs of rational numbers on a coordinate plane.
- Define rational and irrational numbers.
- Define terminating and repeating decimals.
- Add, subtract, multiply and divide rational numbers.
- Understand inverse relationships.
- Use positive integer exponents.

### **(Math continued)**

- Know that calculators truncate or round.
- Find simple interest and compound interest.
- Understand absolute value.
- Use proportional reasoning and ratios.

### **Algebra**

- $y = kx$  is proportional.
- $y = k/x$  is inversely proportional.
- Use graphing technology.
- Know that proportional relationships have a linear graph that passes through the origin.
- Recognize the slope of the line as the unit rate of the relationship.
- Create and convert between tables, written descriptions, symbols, equations, and graphs of proportional relationships.
- Solve problems involving proportional relationships.
- Check to make sure the solution makes sense.
- Write real-world situations as equations and inequalities.
- Use properties to rewrite expressions into simplified expressions.
- Evaluate expressions for a given value.
- Apply the order of operations with and without a calculator.
- Write an equation and then solve the equation for a variable.
- Understand what the solution means within the problem.
- Solve equations used in various proportional relationships.

### **Geometry and Measurement**

- Understand diameter and circumference are proportional.
- Understand the rate of change is pi.
- Calculate circumference and area to solve problems.
- Know the properties of similarity.
- Determine if figures are similar.
- Determine scale factor between similar figures.
- Determine side lengths and areas of similar figures.
- Apply scale factors to similar figures.
- Apply length ratios to similar figures.
- Apply area ratios to similar figures.
- Solve problems with scale drawings and converting units of measure.
- Use proportions and ratios.
- Work with translations and reflections.
- Graph on coordinate plane and describe.
- Determine coordinates after transformation.

### **Data Analysis & Probability**

- Draw conclusions from data.
- Compare different data sets.
- Make predictions.
- Determine outlier and impacts on mean and median.
- Use a spreadsheet to examine impact of outliers.
- Use reasoning and proportions to solve real world problems.
- Choose appropriate data displays for different situations.

### **(Math continued)**

- Use technology to make displays.
- Use random numbers to simulate situations.
- Create histograms and compare results.
- Use sample space or area models.
- Express probabilities as percentages, fractions, and decimals.
- Use proportional reasoning to make decisions based on probability.

## **Science**

### **Nature of Science & Engineering/Inquiry Skills**

- Determine and use appropriate safety procedures, tools, measurements, graphs, and mathematical analyses to describe and investigate natural and designed systems in a life science context.
- Plan and conduct a controlled experiment to test a hypothesis about a relationship between two variables; generate a scientific conclusion from the investigation, clearly distinguishing between results (evidence) and conclusions (explanation).

### **Physical Science**

- Recognize that all substances are composed of one or more of approximately one hundred elements and that the periodic table organizes the elements into groups with similar properties.
- Describe the differences between elements and compounds in terms of atoms and molecules.
- Recognize that a chemical equation describes a reaction where pure substances change to produce one or more pure substances whose properties are different from the original substance.

### **Life Science**

- Understand and explain the levels of organization in living things: cells, tissues, organs, systems, and organisms.
- Recognize that cells carry out life functions, and that these functions are carried out in a similar way in all organisms, including, animals, plants, fungi, bacteria and protists.
- Use the presence of the cell wall and chloroplasts to distinguish between plant and animal cells. For example: using microscopic views of plant cells and animal cells.
- Describe how the human body systems and major organs in these systems interact to serve the needs of vertebrate organisms.
- Recognize that cells contain genes and that each gene carries a single unit of information that either alone, or with other genes, determines the inherited traits of an organism.
- Recognize that in asexually reproducing organisms all the genes come from a single parent, and that in sexually reproducing organisms about half of the genes come from each parent.
- Distinguish between characteristics of organisms that are inherited and those acquired through environmental influences.

### **(Science continued)**

- Describe examples where selective breeding has resulted in new varieties of cultivated plants and particular traits in domesticated animals.
- Understand that individual organisms with certain traits in particular environments are more likely than others to survive and have offspring.
- Understand that human activity can change living organisms and ecosystems.
- Recognize that human beings are constantly interacting with other organisms that cause disease.
- Use maps, satellite images and/or other data sets to describe patterns and make predictions about natural systems in a life science context. For example: use data sets regarding water quality in regions of Minnesota.
- Understand the concept of populations and communities in an ecosystem and the role of predator/prey, parasite/host, and producer/consumer/decomposer within an ecosystem.
- Describe the roles and relationships among producers (including the concept of photosynthesis), consumers, and decomposers in changing energy from one form to another in a food web within an ecosystem.

## **Social Studies**

### **History**

- Describe the processes that led to the territorial expansion of the United States, including the Louisiana Purchase and other land purchases, wars and treaties with foreign and indigenous nations, and annexation.
- Identify new technologies and innovations that transformed the United States' economy and society; explain how they influenced political and regional development.
- Explain the main ideas of the debate over slavery and states' rights; explain how they resulted in major political compromises and, ultimately, war.
- Outline the major political and military events of the Civil War; evaluate how economics and foreign and domestic politics affected the outcome of the war.
- Describe the effects of the Civil War on Americans in the north, south and west, including liberated African-Americans, women, former slaveholders and indigenous peoples.
- Describe the effects of racism and legalized segregation on American society, including the compromise of 1876, the rise of "Jim Crow," immigration restriction, and the relocation of American Indian tribes to reservations.
- Describe the strategies used by suffragists in their campaigns to secure the right to vote; identify the Nineteenth Amendment.
- Identify causes of the Great Depression and factors that led to an extended period of economic collapse in the United States.
- Explain the causes and conduct of World War II including the nations involved, major political and military figures, key battles, and the Holocaust.

### **(Social Studies continued)**

- Compare and contrast the goals and tactics of the Civil Rights Movement, the American Indian Movement, and the Women's Rights Movement; explain the advantages and disadvantages of non-violent resistance.

### **Citizenship Government:**

- Demonstrate knowledge of civic skills including participating in civic discussion on issues in the contemporary United States, demonstrating respect for the opinions of people or groups who have different perspectives, and reaching consensus.
- Identify examples of how principles expressed in the Declaration of Independence and Preamble to the Constitution have been applied throughout United States history, including how they have evolved over time.
- Describe the components of responsible citizenship including informed voting and decision making, developing and defending positions on public policy issues, and monitoring and influencing public decision making.
- Explain landmark Supreme Court decisions involving the Bill of Rights and other individual protections; explain how these decisions helped define the scope and limits of personal, political and economic rights.

### **Economics:**

- Describe how the interaction of buyers (through demand) and sellers (through supply) determines price in a market.
- Explain how new technologies and innovations transformed the United States' economy and society; explain how they influenced political and regional development.
- Explain the impact of the United States Industrial Revolution on the production, consumption and distribution of goods.

### **Geography:**

- Create and use various kinds of maps, including overlaying thematic maps, of places in the United States; incorporate the "TODALSS" map basics, as well as points, lines and colored areas to display spatial information.

## **Art**

### **Content:**

- Recognize or create the elements of design or principles of design in an artwork.
- Recognize the elements of design and some principles of design in an artwork.

### **Creativity:**

- Create an original two and three dimensional artwork
- Describe my thoughts and feelings, present my artwork, or critique an artwork of classmates.

**(Art continued)**

### **Craftsmanship:**

- Create a rough draft for a project, use paint and other materials to blend/create value changes. Create an original artwork using a variety of materials.
- Revise a rough draft, recognize areas of improvement within an artwork or critique a fellow student's artwork using knowledge of design elements.

## **Health**

### **Personal Health Care**

- Identify the basic parts and functions of the skin, hair, teeth, eyes, and ears.
- Identify common skin, hair, teeth, eyes, and ear problems and how to care for them.

### **Being a Smart Health Consumer**

- Identify skills of an informed consumer.
- Describe factors that play a role in comparison shopping for health products.
- Analyze advertisements for health products or services.

### **Using Medicines Wisely**

- Identify types of medicines (Over-the-Counter vs Prescription).
- Explain ways medicines are taken into the body.

### **Choosing Health Services and Public Health**

- Identify kinds of health care providers.
- Explain changes in health care settings.
- Describe ways people pay for health care.
- Explain the role of government agencies in public health.

## **Physical Education**

### **Physical Skills:**

- Manipulate objects with accuracy and speed.
- Develop and adapt specialized movement skills to meet the demands in a variety of situations.

### **Knowledge and Strategies:**

- Demonstrate fundamental strategies for games and sports-related activities.
- Participate regularly in physical activities for the purpose of improving skill and health.
- Analyze personal fitness level defined by the Presidential Fitness test.
- Set goals to improve or maintain personal fitness.
- Identify and choose activities and work to improve personal fitness level outside of school.
- Use safety principles in activity situations.

## **Spanish**

### **Communication:**

- Engage in conversations, provide and obtain information, express feelings and emotions, and exchange opinions.
- Understand and interpret written and spoken language on a variety of topics.
- Present information, concepts, and ideas to an audience of listeners or readers on a variety of topics.

### **Cultures:**

- Demonstrate an understanding of the relationship between the practices and perspectives of the culture studied.
- Demonstrate an understanding of the relationship between the products and perspectives of the culture studied.

## **Technology**

### **Creativity and Innovation**

- Chooses digital tools to make new products and processes.

### **Communication and Collaboration**

- Shares and works together in digital environments.

### **Research and Information Fluency**

- Finds solutions using digital tools and resources.

### **Critical Thinking, Problem Solving, and Decision Making**

- Finds solutions using digital tools and resources.

### **Digital Citizenship**

- Practices protective, legal, and ethical behaviors.

### **Technology Operations and Concepts**

- Uses basic technology skills to learn.

## **Band & Orchestra**

### **Foundations of Music**

- Analyze the elements of music including melody, rhythm, harmony, dynamics, tone color, texture, form and their related concepts.
- Analyze how the elements of music and related concepts such as articulation, major/minor, and form are used in the performance, creation or response to music.
- Read and notate music using standard notation such as dotted rhythms, clefs, mixed meters, and multipart scores, with or without the use of notation software.
- Play an instrument alone and in a group using musical expression such as phrasing, dynamic contrast, technique, balance, and accurate articulation.

***(Band & Orchestra continued)***

**Create**

- Improvise, compose or arrange a new musical composition.

**Perform**

- Rehearse and perform music from a variety of contexts and styles alone or within small or large groups.
- Revise performance based on the feedback of others, self-reflection, and artistic intent.

**Respond**

- Analyze and interpret a variety of musical works and performances using established criteria.

**Choir**

**Foundations of Music**

- Describe the elements of music (melody, rhythm, harmony, dynamics, tone color, texture, form and their related concepts).
- Describe the characteristics of a variety of genres and musical styles.
- Read and notate music using standard notation (dotted rhythms, clefs, mixed meters and multipart scores, with or without the use of notation software).
- Sing alone and in a group (two and three part harmony) using musical expression (phrasing, dynamic contrast, technique, balance and accurate articulation).

**Create/Make:**

- Improvise, compose or arrange a new musical composition.

**Perform/Present:**

- Rehearse and perform music from a variety of contexts and styles alone or within small groups.
- Develop an artistic intent, including how audience and occasion impact performance choices.

**Respond/Critique:**

- Analyze and interpret a variety of musical works and performances using established criteria.
- Compare and contrast connections among works in music, their purposes and their personal cultural and historical contexts.