



**2007** Educating a child is a responsibility shared by the student, school, family and community. As a parent, you can play an important role in the educational success of your child. The Eighth Grade Frameworks is a tool created to help you to better understand what your child is expected to learn at each grade level. These Frameworks form the foundation for student learning in the Central Valley School District.

## **Literacy**

### *Reading, Listening, Speaking*

- Apply a variety of strategies to comprehend words and ideas
- Apply content/academic vocabulary critical to the meaning of the text, including vocabularies relevant to different subjects, cultures and communities
- Adjust reading rate to enhance comprehension and match the difficulty of the text
- Apply comprehension monitoring strategies during and after reading  
Determine importance using theme, main idea, and supporting details in informational/expository text and literary/narrative text and use prior knowledge to predict and conclude
- Analyze an author's use of time, order, and/or sequence to extend comprehension of text (writing)
- Apply understanding of complex organizational features of printed text and electronic sources (verify, support, clarify)
- Understand and analyze story elements
- Apply understanding of text organizational structures (description, comparison and contrast, sequential order, cause and effect)
- Analyze text for similarities and differences and cause and effect relationships
- Analyze and evaluate informational materials for relevance in meeting a specific purpose
- Evaluate author's use of literary devices to enhance comprehension
- Synthesize information from a variety of sources
- Analyze author's purpose and evaluate an author's style of writing to influence different audiences
- Analyze and evaluate text for validity and accuracy, author effectiveness, beliefs and assumptions and treatment of concepts within, among and beyond multiple texts
- Analyze text to generalize, express insight, or respond by connecting to other texts or situations  
Analyze web-based and other resource materials (including primary and secondary sources) for relevance in answering research questions  
Understand and apply appropriate reading strategies for interpreting technical and non-technical documents used in job-related settings  
Analyze traditional and contemporary literature in a variety of genres (writing types)  
Understand and analyze recurring themes in literature
- Analyze how great literary works from a variety of cultures contribute to the understanding of self, others and the world  
Evaluate personal reading progress and set goals for improvement

- Evaluate books and authors to share reading experiences with others

## **Writing**

- Write responses to text that are detailed, analytical and honest, citing supporting evidence
- Know how to select and communicate an effective organizational structure (chronological, procedural, spatial, order of importance, main ideas, supporting detail)
- Emphasize key ideas through appropriate use of text features (headings, charts, diagrams, graphs)  
Focus writing with thesis statement or controlling idea that maps the progression of ideas
- Analyze and synthesize information from a variety of sources
- Select persuasive, informational/technical, descriptive language appropriately
- Maintain an individual, authoritative voice in expository and persuasive writing  
Maintain accuracy in grammar/usage, punctuation, spelling, paragraphing and capitalization  
Adapt some writing for visual formats (graphs, charts, outlines, bulleted statements, web pages)  
Anticipate reader's questions in persuasive writing
- Establish subject and purpose of writing in a thesis statement within the introduction
- Write in text forms specific to the subject area (informational, persuasive, literary)
- Use a commonly accepted reference style such as American Psychological Association (APA) or Modern Language Association (MLA) in reports and technical documents.
- Revise writing for accuracy of content and clarity of focus
- Revise and edit for effective use of typographic devices and requirements of technical writing forms  
Select different ways to present final draft and justify choice
- Submit work for review, accept feedback and revise accordingly

## **Math**

### *Number Sense*

- Manipulate positive and negative numbers, fractions, decimals, percents, ratios, proportions, exponents and square roots to solve problems
- Apply inverse, commutative, associative, and distributive properties to integers (whole numbers)  
Apply order of operations to solve problems

### *Measurement*

- Apply properties of triangles in determining volume and surface area
- Apply the Pythagorean theorem ( $a^2+b^2=c^2$ )
- Calculate rate as it applies to measurement (miles per hour, heartbeats per minute)

### *Geometric Sense*

- Draw and label geometric figures
- Apply the concept of similarity to multi-dimensional figures by comparing the slides (translations), flips (reflections) and rotations of an object
- Determine the distance between points on a coordinate grid

### *Probability and Statistics*

- Apply the concepts of probability through experimental and theoretical procedures (numerical measure of chance)  
Analyze how the concept of statistics is influenced by different sample sizes
- Interpret how variations in a data set affect the mean, median, mode and range
- Organize data into the most appropriate table, chart or graph to support varied points of view and use selected display method to predict future values

### *Algebraic Sense*

- Analyze tables and graphs to recognize, create, extend and describe series and mathematical relationships
- Apply a variety of strategies to simplify and solve multi-step equations accurately
- Solve quantities using exponents, variables, square roots and radicals (roots)

### *Problem Solving*

- Apply logical reasoning to communicate mathematical understanding in real-life situations

### **Social Studies**

- Analyze the origins of slavery in America and its impact on the nation
- Understand and analyze the Reform Movement
- Understand and analyze the economic cause, effect and impact of the Civil War
- Understand and analyze Abraham Lincoln's Presidency before, during and after the Civil War
- Understand and analyze the reconstruction era in regard to cultural, economic and political development in the United States
- Understand and analyze the powers of the Legislative, Executive and Judicial branches of the government on state and local levels
- Understand and analyze the demographic changes of Washington State from 1889 to the present
- Understand and analyze the Native American contributions and struggles in the Pacific Northwest
- Understand and analyze the purpose, challenges and economic incentives associated with westward expansion, the Lewis and Clark Expedition, the Fur Trade Era and the Missionary Movement
- Understand and analyze the relationship between Washington State and other Pacific Rim countries with regard to location, trade and culture
- Create and interpret maps, charts, tables and graphs
- Evaluate primary and secondary source materials
- Develop content reading skills
- Develop technical writing skills including note taking, strategies and thinking maps

### **Science**

- Identify and use the steps in the Scientific Method (question, hypothesis, experiment, conclude)  
Gather and communicate information in a lab write-up using charts, tables and graphs
- Collect and analyze data from experiments
- Demonstrate proper use of lab equipment
- Demonstrate proficiency using metric measurements
- Identify and practice safe lab procedures
- Demonstrate an understanding of human body organ systems and how they carry out life functions
- Demonstrate an understanding of how organisms use matter and energy for life processes (germination, light)
- Explain how human body systems are interrelated (circulatory, digestive)
- Demonstrate an understanding of how balanced and unbalanced forces can change the motion of objects (pressure, gravity)
- Demonstrate an understanding of the conservation of matter and the chemical changes in atoms
- Demonstrate an understanding of the positions, relative speeds and changes in speed of objects
- Explain the transfer and transformations of energy within a system
- Demonstrate an understanding of Newton's laws of motion
- Demonstrate an understanding of the structure of the solar system
- Describe the effects of the position of the sun, moon, and earth on the tides
- Demonstrate an understanding of the properties and behavior of ocean waves
- Describe how plants produce their own food from light, air, water and nutrients
- Describe how plants acquire and distribute materials needed for life processes
- Demonstrate an understanding of how plants interact and respond to their environment
- Use geologic evidence (fossils and rock formations) to understand earth's changes over time
- Describe the processes involved in the rock cycle and the formation of igneous, sedimentary and metamorphic rocks  
Describe the properties that are used to identify minerals and be able to distinguish between rocks and minerals
- Describe the structure and composition of the Earth's atmosphere
- Explain the water cycle and its effect on weather
- Demonstrate an understanding of how the sun, ocean currents and global winds affect weather and climate

### **Health and Fitness**

- Perform to health related standards for aerobic endurance, muscular strength, muscular endurance and flexibility using national education standards
- Apply knowledge of FIT (Frequency/Intensity/Time) principles to individualized fitness and health plans
- Set individual goals for maintaining or improving fitness and health related components
- Measure and understand how body composition relates to overall health and fitness

- Use technology to measure individual areas of fitness, such as heart rate and body composition
- Develop a personal health and fitness plan to achieve lifetime fitness goals
- Perform fundamental physical skills involved in a variety of lifetime activities including team and individual sports
- Incorporate and follow rules and safety procedures in all activities
- Demonstrate principles of good sportsmanship and fair play
- Acquire skills to protect health and safety
- Anticipate, identify and develop appropriate strategies for risky situations in a variety of settings
- Demonstrate an understanding of how emotions influence decision-making and develop strategies to avoid risky behavior
- Demonstrate an understanding of diet and how it relates to health, fitness, and performance (weight management, eating a balanced diet, food as fuel, meal planning)
- Demonstrate an understanding of basic consumer knowledge (reading labels, ingredients, protein, fat, carbohydrate ratios and the food pyramid)
- Identify personal calorie needs and evaluate food choices
- Identify major body systems and their functions
- Demonstrate an understanding of the effects of drugs on the body and identify situations that may lead to the harmful use of legal and illegal drugs
- Explain the causes, symptoms and effects of sexually transmitted diseases (STDs)
- Explain the consequences of early sexual involvement
- Demonstrate an understanding that abstinence is the safest choice for teenagers

### **Characteristics of a Successful Learner**

Respects others

Respects those in positions of supervision

Accepts responsibility

Works cooperatively with others

Follows classroom and school rules

Follows directions

Uses independent time effectively

Actively participates

Completes work on time

Work is done neatly

Demonstrates good organization skills

Meets homework requirements

Comes to class prepared

*For more information, visit [www.cvsd.org](http://www.cvsd.org) and click on Learning and Teaching*

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