

# READING

## 6th Grade Essentials

### Fluency

Apply fluency to enhance comprehension (145-155 WCPM)

### Vocabulary

Understand and apply vocabulary critical to the meaning of the text

### Comprehension

#### **Predict/Infer**

-Predict and infer using passages from text

#### **Sequencing**

-Demonstrate understanding of sequencing with both expository and narrative text

#### **Main Idea - Detail**

-Understand and explain the message or main idea using supportive details

#### **Text features Literary Elements**

-Apply text features/literary elements to texts

#### **Compare/Contrast**

-Analyze and apply using compare/contrast skills to make connections  
-Understand how to make connections with text, self and surrounding

#### **Author's Purpose**

-Understand how to verify content validity

#### **Summary**

-Summarize expository and narrative text

#### **Evaluate Text**

-Evaluate expository and narrative text

# MATH

## 6th Grade Essentials

### Number Sense

Demonstrate proficiency with addition and subtraction, of non-negative decimals and fractions. (unlike denominators)

Demonstrate understanding of multiplication and division of non-negative decimals and fractions (unlike denominators)

Determine the reasonableness of answers in situations involving addition and subtraction of non-negative decimals and fractions.

### Measurement

Demonstrate understandings of the concept of volume and surface area of rectangular prisms and angle measurements.

### Geometric Sense

Demonstrate understanding of the characteristic of angles, polygons, circles, and rectangular prisms.

Describe the location of points on a positive negative number line, recognize and draw slides, flips, or turn a figure 90 or 180 degrees.

### Probability and Statistics

Demonstrate understanding of the likelihood of simple events, probability as a ration and determine possible outcomes for a simple experiment.

Read and interpret data presented in text, circle or bar graphs and single line graphs; determine: mean, mode, median and range.

### Algebraic Sense

Demonstrate the understanding to solve one step equations, extend a pattern and order of operation.

### Process Skills

Apply strategies, concepts and procedures to devise a plan, solve problems, reason logically, and communicate with clarity using charts, diagrams, or pictures.

#### **Strategies Emphasized:**

Make a table or an organized list

Draw a picture

Write an equation

Use objects

# SCIENCE

## 6th Grade Essentials

### Systems:

Explain how the parts of a system interconnect and influence each other.

Identify, categorize, describe and sort substances using physical and/or chemical properties

### Inquiry:

Understand how to plan for a scientific investigation.

Make a logical plan for a scientific controlled investigation using: prediction, materials, controlled variables, one manipulated variable, responding variable, gather record and organize data, multiple trials.

Generate conclusion using data as well as and independent of a conclusion using inference

### Application:

Understand scientific design process.

Propose, implement and document a scientific design process; include: problem, collect information, explore ideas, create a plan listing steps

Test solutions and document the process.

*Analyses of systems through inquiry and application will guide the study of the Physical, Living and Earth/Space Systems.*

### Physical Systems:

Identify and understand how properties are used to identify, describe, and categorize substances, materials, and objects.

Identify characteristics of sound, light and water waves.

Describe and identify different forms of energy.

Heat, sound, light electrical, kinetic, potential and chemical energy.

### Earth and Space Systems:

Understand and describe the structure and motion of the Solar System.

Understand the effects of regular and predictable motions of planets and moons.

### Living Systems:

Identify and describe organisms by their structures.

Describe how organisms can be classified using similarities and differences in physical and functional (internal and external).

Identify how organisms pass on genetic information.

Describe how genes inherited from parents are combined in their offspring to produce a new combination of characteristics.

Identify and describe human life functions and the interconnecting organ systems necessary to maintain human life.

# Manson Elementary School

## 6th Grade Essentials



### Thinking Behaviors

**September: Metacognition, Attending, Self Control**

**October: Connections**

**November: Persisting, Teamwork**

**December: Empathy**

**January: Thinking Flexibly, Risk Taking**

**February: Questioning, Observing**

**March: Clarity, Accuracy**

**April: Humor, Creativity**

**May: Life Long Learning, Enthusiasm**

## WRITING

Use the writing process to produce text.

Write for different purposes: to explain and to persuade.

Write in a variety of forms including: reports, persuasive essays, biographies and brochures.

Write in different genres: expository and persuasive.

Integrate different forms into one single piece.

Use the six traits of writing: ideas, organization, word choice, voice, fluency, and conventions and score using a 4/2 rubric.