

# GENERAL STUDIES

## 2<sup>nd</sup> GRADE

### MATH

#### Computation

The students will:

- Know fact families to 18.
- Be able to add and subtract two and three digit numbers with and without regrouping.
- String numbers.
- Skip-count from any point.
- Learn multiplication and division concepts.

#### Problem Solving

The students will:

- Solve multi-step word problems using pictures, graphs, and other data.
- Relate words to operations and problems.
- Write a mathematical sentence from a story problem and label the solutions.
- Select appropriate operations.

#### Ratio/Proportion/Percent

The students will:

- Identify fractional parts of a whole.
- Compare fractional parts (halves, thirds, fourths) of sets.

#### Measurement

The students will:

- Tell time to hour and minute in 5-minute intervals (analog and digital time).
- Understand elapsed time.
- Know the difference between the length of a day, week, month, and year.
- Estimate and measure using, inch, foot, yard, centimeter, cup, pint, gallon, and liter.
- Know practical equivalents of all coins and bills up to five dollars and make change.
- Understand perimeter and area.
- Estimate and read Fahrenheit and Celsius temperature on a thermometer.

#### Algebra

The students will:

- Identify missing addends in 2-digit addition and subtraction sentences.
- Identify 2-digit missing addends in story problems.

- State a rule for a given pattern.

### **Geometry**

The students will:

- Identify congruent figures.
- Identify plane and space figures.
- Identify lines of symmetry.
- Compose and decompose 2-D and 3-D shapes.
- Sort, identify and describe shapes by various attributes.

### **Data Collection/Analysis**

The students will:

- Collect, organize, interpret, and present data.
- Analyze data to solve problems.
- Understand ranges and outliers.

### **Number Sense**

The students will:

- Estimate if you have enough money for a purchase.
- Estimate change.
- Mentally “make a ten” and use “counting on,” “doubles,” and “doubles plus one” strategies for mental math.
- Explore patterns on 100s chart.
- Write numbers to 1000.
- Explore ways to use numbers (+ and – strings) to get to a number.

## **LANGUAGE ARTS/READING**

### **Reading**

The students will:

- Apply reading strategies to read and talk about books.
- Evaluate books to make varied choices: poetry, biography, non-fiction, and fiction.
- Interpret pictures, charts, and graphs.
- Understand what is being read to them regardless of the genre.
- Identify the story structure when being read to.
- Apply mechanics of reading.
- Approach and master reading and language, understanding language pattern.

## **Communication**

The students will:

- Demonstrate the ability to communicate verbally.
- Follow written and aural directions.

## **Writing**

The students will:

- Begin to apply writing strategies to own writing using appropriate spelling, grammar and sentence structure.
- Master the application of writing strategies to own writing.
- Apply phonetic strategies for spelling.
- Analyze the meaning of a drawing.
- Master independently, an interpretation of what has been written.
- Write a story with a beginning, middle and end.
- Write a paragraph with a topic sentence.
- Write a news article.
- Write a factual report.
- Write different types of poetry.

## **SCIENCE**

### **Dinosaurs and Fossils**

The students will:

- Illustrate a timeline showing the age of dinosaurs.
- Identify fossils as the remains of a former living thing.
- Decide if a fossil is a living or a non-living thing.
- Explain how we learn about the lives of dinosaurs.
- Identify kinds of dinosaurs.
- Explain what happened to the dinosaurs.

### **States of Matter**

The students will:

- Explain the characteristics of solids, liquids and gasses.
- Explain how a thermometer works.
- Understand that different types of matter can change.
- Change state from solid to liquid at different temperatures.
- Evaluate the characteristics of matter as a liquid and gas.
- Analyze the change in matter from liquid to solid.

### **Pebbles, Sand, and Silt (FOSS)**

The students will:

- Observe several different kinds of rocks.
- Compare properties of different rocks.
- Sort rocks in different ways.
- Observe rocks interacting with each other and water.
- Explore a river rock mixture containing earth material particles of various sizes.
- Uses screens to separate and group river rocks by particle size.

### **Life Cycle of Butterflies**

The students will:

- Understand how organisms can change form by observing the stages of caterpillars.
- Compare and contrast different stages in the life of a butterfly.
- Care for and feed the butterfly.
- Differentiate between a butterfly and a moth.

## **SOCIAL STUDIES**

### **People and Communities**

The students will:

- Define appropriate vocabulary words.
- Describe characteristics of different communities.
- Describe the elements of a map.
- Demonstrate their knowledge by working on a cooperative class project.

### **Our Place on Earth**

The students will:

- Define appropriate vocabulary words.
- Explain map symbols.
- Use a map key.
- Identify North American countries.
- Compare and contrast four regions of the US.
- Identify Canada and Mexico.
- Describe life in Canada and Mexico.
- Compare a map to a globe.
- Apply knowledge of US regions in a class project.

### **Our Government**

The students will:

- Define appropriate vocabulary words.
- Recognize mayor and governor as elected officials.
- Explain the purpose of the constitution.
- Describe the three branches of government.
- Explain the Bill of Rights.
- Understand ways people can be good citizens.
- Recognize patriotic symbols.

### **Our Nation's Story**

The students will:

- Define appropriate vocabulary words.
- Compare the life of two Indian tribes.
- Understand why explorers came to America.
- Describe colonial life.
- Understand why the colonies declared independence.
- Describe the work of colonial leaders.
- Explain why people moved west.
- Describe how the settlers impacted Native Americans.
- Explain the difference between types of boundaries.
- Demonstrate how to find information on a time-line.
- Explain contributions of famous Americans.

### **America's People**

The students will:

- Explain the importance of family and tradition.
- Understand why people move to a new country.
- Identify different types of holidays.
- Demonstrate the ability to read a bar graph.
- Identify American heroes.
- Understand the differences between various cultures.

### **People At Work**

The students will:

- Define appropriate vocabulary words.
- Explain how people make choices about spending.
- Understand ways people can work together to reach a goal.
- Describe jobs people do to earn money to meet needs.

- Understand the importance of education to prepare for jobs.
- Illustrate the difference between goods and services.
- Describe steps in the manufacturing process.
- Explain how countries depend on each other economically.
- Explain the importance of modern transportation networks.
- Understand how to use a map scale.