



What students will learn by the end of

## SIXTH GRADE

### **Mission Statement**

The mission of the Roosevelt Public School district is to educate and inspire all students to excel academically\*, to become independent and creative thinkers, skillful communicators and lifelong learners. Roosevelt Public School nurtures and challenges the unique potential of each student so that our children will develop individual, social and civic responsibility as well as respect for themselves, each other, and the environment.

\*to achieve or exceed N.J. CCCS at all grade levels

(For the complete version of the New Jersey Core Curriculum Content Standards, please access: [www.state.nj.us/education](http://www.state.nj.us/education).)

Shari Payson, Interim CSA/Principal

[www.rps1.org](http://www.rps1.org)

Dear Families,

This is a snapshot of all areas of the Grade 6 Curriculum. This version represents the curriculum for your child's grade in school. Using basic skills and experiences as building blocks, Roosevelt's Curriculum is focused upon what children will learn at each grade level and includes a balanced program of all academic areas. Our curriculum is based upon the national and state standards as well as the essential skills and understandings necessary for success on the N.J. ASK Test. Also included is an integration of the arts, physical education and world language.

This curriculum comes alive in the hands of our dedicated, talented teachers. We are committed to ensuring that our students reach their highest potential through a differentiated curriculum. We are dedicated to accommodating children's diverse needs, the way they learn, their experiences and interests, and to facilitating continuous educational growth.

We know that learning is optimized in a partnership with families, teachers, and schools. Working together, we can use your experiences as a family and our work in the classroom to create a respectful climate of academic success and joy for lifelong learning.

Sincerely,

Shari Payson  
Interim CSA/Principal

# **LANGUAGE ARTS LITERACY**

## **Reading**

The learner will:

- Read a variety of materials with comprehension and critical analysis.
- Identify author's style, main idea, supporting ideas and themes.
- Read a variety of genres.
- Identify differences of various print formats, including newspapers, magazines, books, the Internet and other reference resources.
- Infer specific word meanings using the context clues of reading passages.
- Use appropriate pace, expression, intonation, and phrasing in demonstrating understanding of punctuation marks and author's purpose.
- Use appropriate reading strategies such as analyzing and evaluating story structure, making inferences, and summarizing.
- Select useful visual organizers before, during, and after reading to organize information, such as Venn diagrams, plot organizers, cause and effect charts, and main idea webs.
- Reflect and respond to text by connecting and comparing characters and events to one's own self/experience.
- Interpret text through creative response, writing, discussion and research.
- Identify setting, characters, problem and solution, main idea, details, and sequence of events.
- Compare contrasts, and distinguish between facts and opinions.
- Distinguish between fantasy and reality/fact or fiction.
- Recognize persuasion and persuasive techniques.
- Makes valid inferences based on background knowledge and details provided in text.
- Identify the theme of a unit.

## **Writing**

The learner will:

- Write for a variety of purposes: to entertain, describe, explain, compare, persuade, inform, demonstrate knowledge, answer questions, respond to literature, acquire knowledge, and to communicate (letters, emails).
- Write poems, stories, and essays based upon personal reflections, observations, and experiences.
- Write creative, imaginative, and original responses to literature (e.g., poems, songs, stories).

- Practice writing to a speculative prompt within a specified time, being aware of purpose and audience.
- Develop a five paragraph essay.
- Incorporate descriptive language into writing.
- Revise to identify and correct mechanical and grammatical mistakes, clarify and refine ideas, distinguish among important, unimportant, and irrelevant information, and to enhance word selection.
- Develop and use a classroom rubric for written work and use for peer review and editing.
- Gather and record information on a research topic from a variety of sources.
- Use current technology as a research and communication tool for personal interest, research, and clarification.

### **Speaking**

The learner will:

- Present and retell a folktale.
- Present speeches.
- Present advertisements.
- Conduct interviews, i.e. autobiographical.

### **Listening**

The learner will:

- Evaluate poetry recitation.
- Develop appropriate questions for speaker.
- Recognize elements of propaganda.

## **Mathematics**

### **Number and Numeration**

The learner will:

- Read and write whole numbers and decimals; identify places in such numbers and the values of the digits in those places; use expanded notation, number and word notation, exponential notation, and scientific notation to represent whole numbers and decimals.
- Solve problems involving percents and discounts; explain strategies used; identify the unit whole in situations involving fractions, decimals, and percents.
- Use greatest common factors, least common multiples, and divisibility rules

to fractions.

- Apply the order of operations to numerical expressions to give equivalent names for numbers.
- Find equivalent fractions and fractions in simplest form by applying multiplication and division rules and concepts; convert between fractions, mixed numbers, decimals and percents.
- Choose and apply strategies for comparing and ordering numbers; explain those choices and strategies.

## **Operations and Computation**

The learner will:

- Use mental arithmetic, paper and pencil algorithms, and calculators to solve problems.
- Solve problems involving the multiplication and division of whole numbers, decimals and signed numbers; describe the strategies used and explain how they work.
- Solve problems involving the addition and subtraction of fractions and mixed numbers; describe the strategies used and explain how they work.
- Solve problems involving the multiplication and division of fractions and mixed numbers; describe the strategies used and explain how they work.
- Make reasonable estimates for whole number, decimal, fraction, and mixed number addition, subtraction, multiplication, and division problems; explain how the estimates were obtained.
- Use ratios and scaling to model size changes and to solve size-change problems; represent ratios as fractions, percents, and decimals, and using a colon.
- Model and solve problems involving part-to-whole and part-to-part ratios.

## **Data and Chance**

The learner will:

- Collect and organize data or use given data to create bar, line, circle, and stem-and-leaf graphs with reasonable titles, labels, keys, and intervals.
- Use the minimum, range, median, mode, mean and graphs to ask and answer questions, draw conclusions, and make predictions.
- Compare and contrast the median and mean of a data set.
- Use the Multiplication Counting Principle, tree diagrams, and other counting strategies to identify all possible outcomes for a situation; predict results of experiments

- Compare predictions based on theoretical probability with experimental results.
- Calculate probabilities and express them as fractions, decimals, and percents; explain how sample size affects results; use the results to predict future events.

### **Measurement and Reference Frames**

The learner will:

- Estimate length with and without tools.
- Choose and use appropriate formulas to calculate the circumference of circles and to solve area, perimeter, and volume problems.
- Use ordered pairs of numbers to name, locate, and plot points in all four quadrants of a coordinate grid.

### **Geometry**

The learner will:

- Identify, describe, classify, name and draw angles.
- Identify and describe similar and congruent figures and describe their properties.
- Identify, describe, and sketch (including plotting on the coordinate plane) instances of reflections, translations, and rotations.

### **Patterns, Functions and Algebra**

The learner will:

- Extend, describe, and create numeric patterns.
- Determine whether equalities and inequalities are true or false.
- Describe and apply the conventional order of operations.

## **SCIENCE**

### **Scientific Process**

The learner will:

- Evaluate the strengths and weaknesses of data.
- Communicate findings.
- Recognize the results of scientific investigations may not be the same and replication is necessary.

### **Science and Society**

The learner will:

- Understand the development of scientific ideas that are essential for building scientific knowledge.
- Learn that people from many cultures have contributed to our understanding of science.

### **Mathematical Applications**

The learner will:

- Learn that mathematics is a tool used to model objects, events, and relationships in the natural and designed world.

### **Nature and Process of Technology**

The learner will:

- Understand that the development of technology and advances in science are mutually supportive in driving innovation in both fields.
- Recognize that physical constraints and social values play a role in limiting the use of technology to solve problems.

### **Electricity**

The learner will:

- Identify the characteristics of electricity.
- Work with materials to create circuits.
- Observe and create different kinds of circuits.
- Use the scientific method to explore experiments.

### **Oceanography**

The learner will:

- Understand and explore the composition and attributes of the world's oceans.
- Organize ocean food webs.
- Participate in ocean experiences.

### **Robotics**

The learner will:

- Identify how robots work.
- Explain how to program a robot.
- Use programming to make a robot perform a simple task.

## **SOCIAL STUDIES**

### **History**

The learner will:

- Describe the importance of the Constitution and the powers it established.
- Explain how the Louisiana Purchase increased the size of the U.S.
- Analyze the differences between the North and the South.
- Describe how some African Americans fought against slavery.
- Identify the reasons that the Southern states seceded.
- Describe how the Civil War began.
- Analyze the effect of the Emancipation Proclamation on both the North and the South.
- Evaluate the effects of the war on the North and the South.
- Describe the events that lead to the end of the war.
- Evaluate Reconstruction and its affect on all Americans.
- Analyze and describe the effect of the transcontinental railroad on the West.
- Analyze the growth of the cattle industry and its importance in the West.
- Explain why new people settled on the Great Plains and how they solved farming problems.
- Describe how Native Americans struggled to save their way of life.

### **Citizenship**

The learner will:

- Develop and understand decision-making, problem solving, listening, speaking and group interaction skills.
- Develop an awareness of current events.
- Participate in volunteer work.

### **Geography**

The learner will:

- Identify all types of maps and the terminology involved with them.
- Identify features of geography.
- Explain physical and cultural regions.
- Identify the elements that make up people's culture.