



## Mathematics

### Operations and Algebraic Thinking

- Know my multiplication & division facts from 2 to 12
- Tell the difference between a factor and multiple
- Figure out a rule or pattern from missing information
- Write, solve, and explain an equation in different ways
- Figure out patterns in changes between related problems

### Measurement and Data

- Read and use a ruler, thermometer, or clock correctly to the nearest cm,  $\frac{1}{4}$  inch, degree, or minute
- Collect and organize data in a way that will help draw conclusions about data
- Tell relative sizes, including metric & standard units of weights & volume
- Find the area and perimeter in a real-world problem
- Add and subtract money
- Understand how to convert different units of measure from larger units to smaller units

### Geometry

- Recognize lines of symmetry
- Draw points, lines, segments, rays, and angles
- Recognize and measure angles
- Identify 2 dimensional figures

## Numbers and Operations, Fractions

- Use an efficient strategy to add or subtract multi-digit whole numbers
- Understand the difference between adding, subtracting, multiplying, and dividing whole numbers
- Use place value to compare numbers using  $<$ ,  $>$  or  $=$
- Write numbers in standard and expanded form
- Use place value understanding to round whole numbers to any place value
- Solve 2, 3, & 4- digit multiplication and division problems by using an efficient strategy
- Add & subtract fractions with like denominators
- Demonstrate understanding of equivalent fractions
- Multiply fractions by whole numbers
- Write a fraction in an equivalent decimal form
- Compare and order fractions with unlike denominators from least to greatest

## Social Studies

### Civics, Government and Economics

- Describe the structure of government in New Hampshire and the United States and how it functions to serve citizens
- Understand the vocabulary and terms used to describe government
- Use fundamental principles and concepts of economics to understand economic activity in New Hampshire

### Geography and History

- Use historical thinking to understand the past in New Hampshire
- Demonstrate the ability to use maps, graphs and charts to report about the real world.



**NASHUA SCHOOL DISTRICT**

**ELEMENTARY GRADE  
GRADE FOUR**

**YOUR CHILDREN ARE OUR CHILDREN**





# GRADE FOUR

## Student “I can” Statements

### ELA

Fourth grade students independently acquire meaning by expanding communication skills. Students use reading, writing, listening, and speaking to communicate in an organized and clear manner

### Mathematics

Fourth grade students extend their learning of multiplication and division of whole numbers. They solve measurement problems which involve area and perimeter, money notation, and elapsed time. Students expand their understanding of geometry concepts to include symmetry, congruence, and the coordinate plane.

### Science

Fourth grade students develop a deeper understanding of science concepts and content. Students practice similar scientific and engineering practices as those used by scientists.

### Social Studies

Fourth grade students learn significant social studies concepts within an increasingly complex social environment. They examine fundamental concepts in geography, civics and government, and economics through the lens of New Hampshire history.

## English Language Arts

### Foundational Skills

- Decode longer words
- Read a variety of grade level texts fluently and accurately
- Demonstrate reading stamina

### Reading

- Summarize and evaluate longer texts
- Predict, refer to details, and draw inferences
- Use text features to support comprehension
- Make text to self, text to text and text to world connections
- Think about and infer the author’s purpose
- Understand character traits, struggles, and motivations
- Identify theme from details and summarize text

### Writing, Language, and Speaking

- Generate ideas to write about
- Identify and use the steps in the writing process
- Use voice in writing
- Vary word choice
- Demonstrate sentence fluency
- Apply conventions
- Use tools, resources and technology to make writing better
- Do research writing and cite references
- Write for different audiences using many formats
- Use powerful words to make writing come alive for the reader
- Present information on a specific topic using resources, reference materials, and technology
- Address the audience, speak clearly, and stay on topic when sharing ideas
- Be an active participant in group discussions
- Pose and respond to questions as well as build on the ideas of others

## Science

### Science and Engineering Practices

- Ask questions and define problems
- Develop and use models
- Plan and carry out investigations
- Analyze and interpret data
- Use math and computational thinking
- Construct explanations and designing solutions
- Engage in argument from evidence
- Obtain, evaluate, and communicate information

### Disciplinary Core Ideas

- Explain how energy is transferred and conserved.
- Explain how waves are used to transfer energy and information.
- Explain how organisms live, grow, respond to their environment and reproduce.
- Explain what the universe is and Earth’s place in it.
- Explain how and why the Earth is constantly changing.
- Explain how the Earth’s surface processes and human activities affect each other.

### Cross-cutting Concepts

- Observe patterns to guide classification and prompt questions about relationships and the factors that influence them.
- Investigate and explain causal relationships and the mechanisms by which they are mediated.
- recognize how changes in scale, proportion, or quantity affect a system’s structure or performance.
- Define the system under study to provide tools for understanding and testing ideas that are applicable throughout science and engineering.
- Track fluxes of energy and matter into, out of, and within systems to help one understand the systems’ possibilities and limitations.
- Understand that the shape of an object or living thing determines its properties and functions.
- Understand that stability and change for natural and built systems are critical elements of study.

## Student Success Skills

### RESEPECT:

- Positively and appropriately interact with peers and staff
- Resolve situations and conflicts with problem-solving strategies
- Value and follow the academic, social, and emotional goals and rules of the community

### RESPONSIBILITY:

- Act as a partner for their learning by responsibly maintaining home and school connection and communication
- Take responsibility for learning by being prepared and organized with class work and homework.
- Recognize when they need help and can advocate for themselves appropriately.

### READY TO LEARN:

- Manage transitions and is able to refocus as a learner.
- Maintain attention and focus through learning activities and tasks.
- Take charge of their learning and perform at the best of their ability and persevere through challenges