

## ENGLISH LANGUAGE ARTS

### Reading:

- Read with accuracy and fluency to support comprehension
- Ask and answer who, what, when, where, and why questions to demonstrate understanding of key details
- Retell important events of a text in sequential order
- Discuss information and opinion on a text with both peers and adults
- Decode long and short vowel teams in one and two syllable words
- Decode with common prefixes and suffixes
- Recognize and decode grade-appropriate irregularly spelled words

### Language:

#### Grammar:

- Learn collective nouns, irregular plural nouns, reflective pronouns, past tenses and adjectives

#### Conventions:

- Learn to capitalize holidays, product names, geographic names, use commas, apostrophes and generalized learned spelling patterns
- Stretch a simple sentence into a more descriptive and detailed sentence

### Writing:

- Write an opinion piece, narrative and informative/explanatory text with topics, opinions or facts and conclusions
- Edit using capitalization, punctuation and grade appropriate spelling rules and patterns when writing
- Revise using appropriate grade level conventions that support my writing piece
- Publish and share writing pieces

### Speaking and Listening:

- Follow agreed-upon rules for classroom discus-

sion

- Add to classroom discussion by building on others' conversations
- Produce questions and comments in complete sentences for understanding

## MATHEMATICS

### Number Sense:

- Read, write and model numbers to 999 (Ones, tens and hundreds)
- Compare two and three digit numbers using greater than and less than symbol (<,>=)and equal to
- Know the connection between addition and subtraction to solve problems
- Add and Subtract within 1000 using place value and modeling
- Skip count by 5, 10, and 100 with numbers up to 1000

### Operations and Algebraic Thinking:

- Represent and solve problems with one and two steps through 100
- Work with equal groups of objects to gain foundational skills for multiplication
- Know addition and subtraction facts through 20

### Measurement and Data:

- Measure accurately and compare using tools such as rulers, yardsticks and meter sticks
- Tell time to the nearest five minutes
- Know relationships of time (seconds in a minute, minutes in an hour, months in a year)
- Solve word problems with money amounts
- Construct and analyze line plots, pictographs and bar graphs

### Geometry:

- Recognize and draw shapes with specific sides and angles (Triangles, quadrilaterals)
- Partition circles and rectangles into equal shares and call them halves, thirds and quarters

## SCIENCE AND TECHNOLOGY

### Earth and Space Science:

- Research and compare effectiveness of multiple solutions designed to slow or prevent wind/water from changing the shape of the land
- Map shapes and types of landforms and bodies of water in an area
- Use examples from research to explain where water can be found and that it can be solid or liquid
- Observe water/wind moving earth materials and changing their shape

### Life Science:

- Habitats ~ Use models to explain how plants and animals use their surroundings to meet their needs for food, water, air and shelter
- Research, observe and compare different living things in an area and the differences of living things living in different areas

### Physical Science:

- Describe and classify different materials by color, flexibility, hardness, texture and absorbency
- Use the properties and state of matter to determine the best use of the material
- Analyze evidence to determine that cutting material into smaller pieces doesn't change its composition
- Argue with evidence that some changes to materials by heat or cooling can be reversed and others cannot
- Design and conduct an experiment to explain friction and how it acts on matter

### Technology and Engineering :

- Analyze data from tests of two objects designed to solve the same design problem to compare the strengths and weaknesses of how each object performs

## SOCIAL STUDIES

### History and Geography:

- Investigate reasons why people migrate to different areas (voluntary and forced migration)

- Give examples of why the United States is called “a nation of immigrants”
- Conduct questionings of family, friends, or staff to discover where they came from
- Identify what individuals or families bring with them when they migrate
- Explain information given on a map
- Compare types of maps and construct a map of familiar location
- Locate on map all the Continents and traits of each
- Locate all oceans on map or globe
- Explain how locations of water effect the climate
- Explain human interaction with the physical world (adapt or change to new environments)

#### **Civics and Government:**

- Recognize the difference between physical geography and political geography
- Explain characteristics of a country
- Locate and analyze physical features, resources, and people in a country outside the US

#### **Economics:**

- Explain relationship between natural resources and industries and jobs in a location
- Distinguish a renewable source from a non-renewable source
- Explain that people are a resource
- Define employment, income, wages, and salary
- Give examples of buyable goods, human services, and choices with money
- Compare and contrast reasons why people save some of their money

**The purpose of this guide is to identify the major topics, concepts, and skills that are considered essential for this grade level as identified by the Massachusetts Curriculum Frameworks.**

#### **Number and Operations in Base Ten:**

- Count, read, and write numerals to 120
- Know meaning of the digits in a two-digit number (tens and ones)
- Compare numbers to 120 using greater than, less than, and equal to
- Add some tens or some ones to a number to 120

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# CURRICULUM GUIDE GRADE 2



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