# Grade 2 Mathematics

## A Year at a Glance

### Numerical Relationships

- **Whole Numbers:**
  - Identify the place value of each digit in a three-digit numeral
  - Read and write three-digit numerals
  - Compare two numbers between 0 and 999
  - Round three-digit numbers to the nearest ten
  - Order numbers between 0 and 99
  - Identify the ordinal positions first through twentieth
  - Count forward by twos, fives, and tens to 100, starting at various multiples of 2, 5, or 10; count backward by tens from 100
  - Use objects to determine if a number is odd or even

- **Fractions:**
  - Identify fractions as parts of a set and/or region for halves, thirds, fourths, sixths, eighths, and tenths
  - Write fractions
  - Compare unit fractions

### Operations

- **Estimation:**
  - Estimate the sum of two whole numbers whose sum is 99 or less
  - Estimate the difference of two whole numbers each 99 or less
  - Estimate and add three or more addends whose sum is 99 or less

- **Procedures for Computation:**
  - Recall basic addition and subtraction facts (sums to 20)
  - Find the sum of two whole numbers whose sum is 99 or less
  - Find the difference of two whole numbers each 99 or less
  - Regroup 10 ones for 1 ten or 1 ten for 10 ones, using Base-10 models, when finding the sum or difference
  - Create and solve one-step and two-step addition and subtraction problems using data

### Measurement

- **Customary and Metric Units:**
  - Determine the value of a collection of coins and one-dollar bills whose value is $2.00 or less
  - Compare the values of two sets of coins
  - Use the cent symbol, dollar symbol, and decimal point
  - Make change to $1.00
  - Estimate and measure length to the nearest inch and centimeter; weigh/mass to the nearest pound/ounce and kilogram/gram; and volume in cups, pints, quarts, gallons, and liters
  - Identify objects whose lengths are greater than or less than a foot and a yard
  - Tell time to the nearest 5 minutes
  - Use a calendar to identify specific dates and to determine days in the past or future from a given date
  - Read temperature to the nearest 10 degrees in Fahrenheit and Celsius

### Geometry

- **Identify, Classify, and Transform Shapes:**
  - Draw a line of symmetry in a figure
  - Identify and create figures with at least one line of symmetry
  - Determine similarities and differences between related plane and solid figures
  - Identify attributes of two-dimensional figures and sort accordingly

### Data Analysis, Statistics, and Probability

- **Identify, Classify, and Analyze Data:**
  - Collect data to answer questions
  - Organize data to construct and analyze picture graphs, pictographs, and bar graphs
  - Identify, describe, compare, and contrast plane and solid figures
  - Identify attributes of two-dimensional figures and sort accordingly

### Patterns, Functions, and Algebra

- **Patterns:**
  - Identify, create, and extend repeating and growing patterns

- **Functions:**
  - Find the missing number in a number sentence
  - Create story problems for a given numerical sentence
  - Identify equivalent and non-equivalent values and equations

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# Grade 2 Language Arts

## A Year at a Glance

### Reading

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<td><strong>Lists</strong></td>
<td>- Decode unfamiliar words using word patterns</td>
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#### Process

| **Read with Fluency, Accuracy, and Expression:** |
| - Read two-syllable and common high-frequency words |
| - Apply knowledge of phonics, meaning clues, and language structure |
| - Use punctuation (periods, question and quotation marks, and exclamation points) |
| - Use phrasing and expression |
| - Practice reading and rereading familiar stories and texts |

| **Self-Monitor and Solve Problems when Reading:** |
| - Set a purpose for reading |
| - Skim nonfiction for headings, bold type, and captions to set a purpose for reading |
| - Use titles and headings to generate ideas about the text |
| - Decode unfamiliar words using word patterns |
| - Apply phonetic principles to problem solve unknown words |
| - Reread and self-correct when text does not make sense |
| - Use words, pictures, and other clues from text to confirm or self-correct, rereading as necessary |
| - **Demonstrate Comprehension:** |
| - Find evidence from the text to make and confirm predictions before, during, and after reading |
| - Make connections |
| - Use knowledge of story structure (character, setting, problem, solution) |
| - Retell stories orally or in writing using beginning, middle, and end |
| - Use knowledge of transition words (e.g., first, next, and soon) |
| - Identify the main idea of a fiction selection |
| - Identify the main idea and key details of a nonfiction selection |

| **Develop an Understanding of New Vocabulary:** |
| - Use knowledge of the story or topic to make predictions about vocabulary |
| - Confirm vocabulary by using words, pictures, and other clues |
| - Identify and recognize meanings of common prefixes and suffixes |
| - Use knowledge of homophones |
| - Ask for meaning of unknown words and make connections to familiar words |
| - Use vocabulary from mathematics, science, and social studies |

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## Grade 2 Science
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# Grade 2 Social Studies
## A Year at a Glance

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| ★ Explorers:  
  - Jacques Cartier  
  - Christopher Columbus  
  - Juan Ponce de Leon  
  - Christopher Newport  
★ Famous Americans:  
  - Susan B. Anthony  
  - Helen Keller  
  - Martin Luther King, Jr.  
  - Abraham Lincoln  
  - Pocahontas  
  - Powhatan, the paramount chief  
  - Jackie Robinson  
  - George Washington  
★ American Indian cultures, past and present:  
  - Lakota  
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★ Countries:  
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  - Jamestown, Virginia  
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★ Barter  
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★ Consumers  
★ Producers  
★ Scarcity  
★ Economic choices  
★ Economic specialization  
★ Capital resources  
★ Human resources  
★ Natural resources  
★ Change  
★ Climate  
★ Community  
★ Diversity  
★ Exploration  
★ Good citizenship  
★ Location  
★ Population  
★ Relationship between environment and culture  
★ Responsibilities  
★ State and local government  
★ Trade  
★ Transportation  
★ Voting  
★ Compare and contrast  
★ Classify, organize, record, and interpret information  
★ Construct and explain graphs and simple charts  
★ Explain cause and effect  
★ Make generalizations  
★ Make decisions  
★ Locate regions on maps and globes  
★ Locate the equator, the continents, the Great Lakes, and the oceans  
★ Make, draw, and use maps  
★ Use a compass rose  
★ Participate in groups  
★ Use the equator and prime meridian to identify hemispheres  

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## Grade 2 Language Arts
### A Year at a Glance

### Oral Language

**Participate in Group Discussions:**
- Participate in choral reading, shared reading, and dramatics (plays, skits, reader’s theater)
- Retell experiences, stories, and events in logical order
- Use complete sentences
- Use language to inform, persuade, entertain, clarify, and respond
- Ask and answer questions to check for understanding of information presented
- Express ideas clearly and in organized manner
- Follow rules of discussion and assigned group roles

**Listen Actively:**
- Listen to and discuss a variety of stories, poems, and informational texts
- Listen and respond to others
- Follow and give simple three-step or four-step directions

**Recognize Sounds in Words:**
- Isolate and manipulate sounds in one-syllable words
- Add or delete sounds to make new words
- Blend and segment multisyllabic words at the syllable level

**Expand and Use Vocabulary:**
- Listen to and discuss a variety of texts
- Explain meanings of words within the context of how they are used
- Use appropriate verbs for past, present, and future events
- Use synonyms and antonyms
- Use specific vocabulary from mathematics, social studies, and science

### Writing

**Write:**
- Events
- Friendly letters
- Information
- Literature responses
- Shared research project
- Simple reports

**Organize Writing:**
- Use time-order words (first, next, then, and last)
- Include a beginning, middle, and end
- Write stories describing events with details, sequence, and a conclusion
- Write information and simple reports that introduce the topic, use facts or opinions, and provide a concluding sentence

**Handwriting:**
- Use legible manuscript writing
- Space words and sentences

**Use Technology to Plan, Draft, Revise, Edit, and Publish**

**Plan:**
- Generate ideas and select topic
- Participate in planning activities
- Consider the intended audience
- Use a writer’s notebook
- Establish and review writing goals

**Draft:**
- Focus on one topic
- Apply letter-sound knowledge when writing unfamiliar words
- Begin to compose paragraphs

**Revise:**
- Add details to elaborate and expand simple sentences
- Respond to questions and suggestions from peers and teachers
- Revise for clarity

**Edit:**
- Use correct spelling of common high-frequency and phonetically-regular words
- Write complete sentences
- Begin sentences with capitals and use ending punctuation
- Use knowledge of simple abbreviations
- Use commas in the date, salutation, and closing of letters
- Capitalize proper nouns and the word I
- Use singular and plural nouns and pronouns
- Use print and online resources in the classroom to correctly spell words

**Publish:**
- Share writing with others

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