

Grade Level Curriculum Guide

Second Grade

2014-2015



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Overview of Second Grade

Second grade is a time to expand on the basic concepts that were learned in earlier grades. Students begin to do more formal schoolwork.

Mathematics

Students must master basic subtraction facts by the end of second grade, having mastered addition facts the previous year. Students engage in more complex skip counting (as a prelude to formal multiplication), work with numbers up to 9,999, and master the skill of regrouping. Time and money becomes more complex, and in geometry, concepts of symmetry and congruence are developed. Students will develop problem-solving strategies and learn to explain their thinking through oral and written language.

Language Arts

Students learn basic parts of speech such as nouns, verbs, adjectives, and adverbs. The dictionary becomes an important tool to the second grader. Students learn strategies for determining word meanings such as prefixes and suffixes, contractions, and base and compound words. Students will move from basic sentences to complete paragraphs to express their ideas, while focusing on the steps in writing (prewriting, drafting, revising, editing, and publishing). Students will begin using technology to publish work. Second graders will learn to write in cursive.

Science

Students observe properties of matter and the effect that heat and cold have on them. They study how energy and matter interact. Concepts of force and motion are developed. Life processes are explored further, particularly plants and animals. Students understand the importance of natural resources. Students will make observations of weather patterns, including temperature, precipitation, and other weather related events.

Social Studies

The focus of social studies is how history tells the stories of people, different cultures, and significant cultural symbols and holidays in the United States. Map skills are developed. Students will use maps and globes to identify important locations. Students will recognize the purpose of rules and laws. A study of economics will be explored to include goods/services, trade, and scarcity. Students will apply the characteristics of a good citizen.

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Necessary skills for entering second grade

Children will be most successful if they have mastered these skills prior to entering second grade.

Language Arts

- Read at the second grade level or higher
- Recognize elements of stories: main idea, supporting details, beginning, middle and end of story, main characters, setting
- Alphabetize words by the first letter
- Write legibly in print (manuscript): left to right, with proper spacing between letters and words
- Writing shows a clear beginning, middle, and end.
- Correctly spell common first grade vocabulary words
- Conventions of writing; Complete sentences, end punctuation, capitalize first word in sentences, names of people, and the pronoun "I".
- Follow two-step directions that are given orally
- Speak clearly in an appropriate voice, and use eye contact when speaking

Mathematics

- Count, read, and write numbers to 100 or higher; place numbers on a number line
- Count to 100 or higher by 2, 5, and 10
- Count backwards from 100 (by ones)
- Know place value to the one hundreds place
- Know addition fact to 18 (i.e. $9 + 9$)
- Add two-digit numbers without regrouping
- Measurement: understand nonstandard units used in linear dimensions, weight, mass, capacity, and temperature
- Know attributes of two and three dimensional shapes: vertices (points), edges, faces
- Describes rules that patterns follow
- Use $>$, $<$, and $=$ to compare and order numbers
- Discuss results of simple graphs and charts
- Identify coins and values
- Identify hour and minute hand on the clock
- Tell time to the hour

Science

- Group objects by their physical properties
- Recognize the different material that make up the earth
- Demonstrate how to change the motion of an object
- Explain the law of gravity through demonstration
- Compare and contrast living and nonliving things
- Identify the major parts of a plant
- Explain how living things resemble their parents and change as they grow
- Recognize that needs of living things
- Ask and explain “How do you know?”
- Understand that there is an orderly way in which to conduct science experiments

Social Studies

- Describe accomplishments of important historical figures
- Compare and contrast past and present lifestyles
- Distinguish between historical fact and fiction
- Explain the reasons for commemorative holidays
- Identify basic elements of a map and locate key places in Florida.
- Similarities between rights and responsibilities at school and at home
- Good citizenship: Fairness, good sportsmanship, individual responsibility
- Recognize American symbols
- Distinguish between examples of goods and services
- Understand the benefits of saving money

Second Grade Skills: First Quarter

Language Arts

- Spelling: Content and Curricular Words
- Grammar: Nouns (singular, plural, irregular), Sentence structure, Strong Verbs, Alphabetizing word lists
- Follow directions
- Dictionary skills
- Writing: Introducing Narrative
 - Brainstorming, planning, drafting
 - Story Elements (characters, plot, main idea, problem, solution).
- Penmanship: review lowercase manuscript

Mathematics

- Addition facts to 18 (review only)
- Subtraction facts to 18
- Addition and subtraction strategies
- Place value through 1000
- Order and compare value through 1000
- Numerical patterns to 1000
- Even and odd numbers with explanation
- Expanded form of numbers through 1000
- Repeated addition

Science

- Think Like a Scientist
 - Science tools, Inquiry, & Problem Solving
 - Units of measurement
- Earth Science: Weather
 - Changing patterns in the weather (water cycle, seasons)
 - How to measure weather conditions
 - The importance of air, moving air is wind, sun's energy
 - Importance of preparing for severe weather and seasons

Social Studies

- Citizenship Skills
 - Respect, caring, responsibility, fairness, honesty, courage
 - Problem solving and decision making
 - Flag rules, Pledge of Allegiance, Our National Anthem
- Where We Live
 - Living in a neighborhood – rules and laws
 - A walk through a community - cities change over time
 - Comparing communities – urban, rural, suburban
 - Our state and our country – 50 states, capitals, North America
 - Our country is a part of our world – continents, oceans, equator

Second Grade Skills: Second Quarter

Language Arts

- Spelling: Content and Curricular Words
- Grammar: Verbs (past, present and future tense), Adjectives, Adverbs, Abbreviations
- Sentence structure
- Follow oral directions
- Writing: Narrative: making revisions, editing and publishing. Writing concluding sentences. Expository: Informative (write to explain): planning and drafting.
- Penmanship: review uppercase manuscript

Mathematics

- Estimation of sums and differences through three-digit problems
- Two-digit and three-digit addition (with and without regrouping)
- Two-digit and three-digit subtraction (with and without regrouping)
- Use of strategies to develop fluency through three-digit within addition and subtraction problems
- Explain process of addition through three-digits
- Explain process of subtraction through three-digits

Science

- Physical Science: All About Matter
 - What is matter & measuring and comparing matter
 - Properties of solids, liquids, and gases
 - Changes in matter
 - Mixtures of matter

Social Studies

- Our Country Long Ago
 - The first Americans – Native American regions, English colonists, trading
 - Colonies – St. Augustine, Jamestown, Plymouth, Thanksgiving
 - 13 Colonies – Revolutionary War, George Washington, Paul Revere
 - Traveling west – Lewis and Clark, Oregon Trail, pioneers
 - We remember important Americans – African slaves
- Our Country Today
 - Local, state, and federal government – citizens, leaders, taxes
 - Voting for leaders – candidates, men, women, laws
 - The land of freedom – songs, symbols, mottoes

Second Grade Skills: Third Quarter

Language Arts

- Spelling: Content and Curricular Words
- Grammar: Compound sentences; Antonyms, Synonyms, Homonyms, Suffixes, and Prefixes
- Following written directions.
- Writing: Expository: Informative: revising, editing, publishing. Writing friendly letters and biographies.
- Penmanship: lowercase cursive

Mathematics

- Count and compare money: cents up to one dollar and bills up to one hundred dollars
- Reading a clock to hour, half hour, and quarter hour
- Determining A.M. vs. P.M.
- Linear measurement: customary and metric
- Use appropriate measurement abbreviations

Science

- Energy
 - Uses for Energy
 - Sun Energy
- Physical Science: Motion
 - Pushes and Pulls
 - Measuring motion
 - Strong and weak forces
 - Change in motion
- Physical Science: Motion
 - Magnets
 - Gravity

Social Studies

- People and Places in History
 - Family history – Ellis Island, Angel Island
 - People celebrate – holidays, calendars
 - Landmarks in our country – local and national – tell about the past
 - A step back in time – artifacts, inventions, diagrams
 - Linking our world – technology, communication, transportation
- Working Together
 - Goods, services, factory – producers, consumers, natural resources
 - A trip to the bank – earning, saving, spending, scarcity
 - Countries trade and move goods – transportation, bartering, trading

Second Grade Skills: Fourth Quarter

Language Arts

- Spelling: Content and Curricular Words
- Grammar: Pronouns and possessives; Figurative Language (personification, similes, metaphors, symbolism).
- Writing: Response to literature, Poetry.
- Penmanship: Uppercase cursive

Mathematics

- Read and make data tables
- Read and make graphs
- 2D and 3D Shapes
- Geometry: recognizing plane shapes and relating to fractions
- Geometry: recognizing solid figures
- Equal Parts

Science

- Life science: Plants and Animals
 - Lifecycles
 - Human Body
 - Needs of living things
 - Habitats
- Earth Science: Earth's Resources
 - How people use rocks and soil
 - Classifying types of soils
 - How soil is formed

Social Studies

- Our Earth
 - Where people live
 - Living in different environments
 - Caring for our resources

Summary of Second Grade Skills

Mastery of these skills is what we generally expect our second grade students to attain by the end of the school year. They are considered the requisite skills for the third grade.

We encourage your family to practice and review these skills over the summer. By doing this, you are setting the stage for a successful third grade year!

Language Arts

- Read at or above the third grade level
- Be able to use dictionaries effectively for word spellings and meanings
- Alphabetize word lists according to the first and second letter in a word
- Identify parts of a book and explain their functions: Chapter titles, index, guide words, table of contents
- Write legibly
- Spell frequently used words correctly
- Mastery of punctuation: End punctuation, commas in dates, series of words, and greetings and closings in letters
- Grammar: Correct use of nouns, action verbs, adjectives, and adverbs
- Identify types of literature: Fables, poetry, non-fiction, myths, fiction stories, fairy tales
- Be able to write one- to three- paragraph essays

Mathematics

- Identify, write, and compare numbers to 1,000 or higher
- Recognize whole number place value to the thousands place or more
- Count to 1,000 or more by 2, 3, 5, 10, 25, 50, and 100
- Explain odd and even numbers
- Know all addition facts up to 18 (i.e. $9 + 9$), and subtraction facts in the same fact families with fluency
- Estimate and select appropriate tools to measure length in standard units
- Describe and solve equality problems, such as a balance situation
- Measure capacity/volume and include appropriate abbreviations
- Measure weight/mass and include appropriate abbreviations
- Add and subtract through three-digit numbers (with and without regrouping) and the explain process
- Tell time on digital and analog clocks by hours, half-hours, and quarter hours
- Know and compare values of coin combinations to one dollar
- Know the names of common two-dimensional figures and relate to fractions
- Know the names of common three-dimensional figures
- Use some simple graphs and charts to display and analyze data
- Use Repeated addition skills

Science

- Know what matter is (solids, liquids, and gases) and compare their properties
- Know how to read and use a thermometer (Fahrenheit and Celsius scales)
- Describe patterns in nature such as seasons, weather patterns, temperatures
- Know the main parts of plants and their functions (roots, seeds, leaves, flowers)
- Understand what a life cycle is and describe the major stages for plants and animals
- Describe and classify different types of soil found on earth
- Understand the difference between a strong and weak force.
- Know that pushes and pulls are forces applied to objects
- Know that living things need energy sources to live
- Know the human body parts (brain, heart, lungs, stomach, muscles, and skeleton) and their basic functions
- Be familiar with some basic science tools, and conduct basic science experiments
- Be able to record how the experiment was conducted, and record the results

Social Studies

- Possess basic map skills: Legends and keys, cardinal and intermediate directions (north, southwest, etc.)
- Lines of authority in the United States: local government authorities, President, Congress, etc.
- Rights and Responsibilities of United States citizens and the Declaration of Independence
- Locate communities, states, and countries on a map and a globe
- Describe the lives and accomplishments of outstanding Americans such as the founding fathers, inventors, and civil rights leaders
- Describe cultural symbols of our country such as the Liberty bell, Statue of Liberty, the eagle, and national monuments
- Understand the events and reasons for national holidays
- Know how we gain resources (income) through work to provide for our needs