



WORLD BOOK

Typical Course of Study: Grade 1

Grade 1 Math

Number and Operations

- Count beyond 100
- Start with any number less than 120 and count forward
- Write a numeral to name numbers to 1,000
- Understand place value to 99
- Use properties of addition and subtraction (commutative, associative, identity, inverse operations)
- Use place value and properties to add and subtract within 100
- Skip count by twos, fives, and tens
- Mentally add or subtract 10 from any two-digit number
- Add and subtract multiples of 10

Mathematical Operations and Algebraic Thinking

- Show or write problems involving addition and subtraction
- Solve problems (including word problems) involving addition and subtraction
- Add and subtract within 20
- Create and work with addition and subtraction equations
- Find missing numbers in equations
- Geometry and Spatial Relationships

Compare and describe attributes of shapes

- Distinguish between different attributes of shapes
- Build and draw shapes with specific attributes (such as three sides)
- Draw or create and name two-dimensional shapes (rectangles, squares, circles, triangles, and half circles)
- Draw or create and name three-dimensional shapes (cubes, cones, and rectangular prisms)
- Compose two-dimensional shapes from other shapes
- Divide circles and rectangles into two and four equal shares, using the words half and quarter
- Measurement and Data

Measure and express length by repeated same-length units

- Put three or more objects in order by length
- Tell and write time in hours and half hours
- Organize, represent, and interpret data with up to three categories on tables and simple graphs
- Compare number of points or items in different categories

Grade 1 Language Arts

Foundational Skills

- Know sounds for two letters that represent one sound
- Read regularly spelled one-syllable words (words that follow general spelling rules)
- Know that a final e teams up with a common vowel to make long vowel sounds
- Identify number and separation of syllables
- Break words into syllables to help with reading
- Read words with inflectional endings
- Use phonics and word analysis skills to read unknown words

- Recognize and read many grade-appropriate words with regular and irregular spellings
- Create new words with two- or three-letter initial sounds

Writing and Representing

- Write short pieces that present an opinion, supply reasons, and give a conclusion
- Write short informative or explanatory pieces that name a topic, give relevant facts, and include a conclusion
- Write stories (true or fictitious) that include details, put events in order, and provide a conclusion
- With adult guidance, make improvements and needed changes to written work
- With adult help, use tools, including digital tools, to produce and publish writing
- Take part in shared research and writing projects, gathering information for a specific purpose
- Create written and visual works to summarize and share information gained during research

Reading Literature and Informational Text

- Know and use various text features (table of contents, index, glossary, headings)
- Explain major differences between texts that tell stories and those that give information
- Retell stories, relating central ideas and key details
- Describe main ideas, arguments, or points in informational text
- Ask and answer questions about key details in a story or other text
- Describe characters, settings, and events in a story
- Describe connections between ideas, events, information, or people in a text
- Connect information to past knowledge about the topic
- Make predictions about what will happen next in a story
- Identify who is telling a story at various points in the story
- Ask and answer questions to learn or clarify meaning of words and phrases used in the text
- Identify words and phrases in stories or poems that appeal to senses
- Describe how illustrations connect to a story or informational text
- Identify author's purpose and discuss ways the text accomplishes the purpose
- Compare and contrast adventures, experiences, settings, characters, within a story or in different stories
- Identify similarities and differences between two texts on the same topic
- Use texts to find information and answer questions following a step-by-step inquiry process
- Take part in shared research and writing projects, gathering information for a specific purpose
- Demonstrate the ability to discuss, clarify, summarize, and evaluate information gained during research
- Read grade-level texts with accuracy, fluency, and sufficient understanding

Vocabulary

- Determine or clarify meanings of unknown words and phrases and multiple-meaning words from grade-level content
- Use clues within the sentence to decide the meaning of a word or phrase
- Use knowledge of prefixes, suffixes, and roots to decode words
- Create new words from base words
- With help, show understanding of figurative language
- Sort words into categories
- Identify real-life connections between words and their use
- Distinguish shades of meaning among words with similar meanings
- Choose the right word for a particular context
- Use words and phrases gained through reading, conversing, listening,
- Show understanding of features of sentences and paragraphs
- Identify, understand, and use compound words

Speaking and Listening

- Follow agreed-upon rules for discussions
- Listen to others with focus and care
- Build on others' ideas in conversation; respond to comments

- Express ideas and feelings clearly
- Speak in complete sentences when appropriate
- Participate in conversations with diverse partners and groups
- Describe people, places, things, and events with relevant details
- Give and follow simple two-step directions
- Ask questions during reading and instruction for clarification and to gain more information
- Ask and answer questions to clarify oral presentations to which the student is listening
- Add drawings or other visual approaches to speaking to clarify ideas, feelings, and thoughts

English Language Skills

- Write all upper and lowercase letters
- Use and identify common, proper, and possessive nouns
- Use correct singular and plural nouns to match verbs
- Use pronouns correctly (I, me, you, my, they, them, there, anyone)
- Use verbs to communicate past, present, and future
- Correctly use frequently occurring adjectives and adverbs
- Correctly use frequently occurring prepositions
- Produce simple and compound declarative, interrogative, imperative, and exclamatory sentences
- Write complete simple sentences
- Capitalize names and dates
- Use correct end punctuation for sentences
- Use commas in dates and series
- Use correct spelling for grade-level words
- Spell new words phonetically

Grade 1 Science

Physical Science

- Identify states of matter (solids, liquids, and gasses)
- Identify properties of objects (size, texture, shape, color, floatability, solubility, etc.)
- Predict and identify changes in materials caused by heating and cooling
- Observe ways that substances mix with a liquid; define mixture
- Observe and describe objects that float or sink
- Understand that sound can make matter vibrate and vibrating matter can make sound
- Identify and discuss different forms of energy, such as light, heat, and sound
- Recognize that objects can be seen when light illuminates them
- Explore materials that allow light to pass through them, others that allow some light through, and others that block all light
- Explore the ways that mirrors reflect light beams and images
- Name some devices that people use to communicate over long distances

Life Science

- Identify different external animal parts and their functions
- Identify different plant parts and the ways they help the plants
- Describe the concept of offspring of plants and animals
- Discuss animal features and traits that help growth and survival
- Understand the idea that animals and plants inherit traits from their parents
- Understand that traits vary; identify examples of varying traits

Earth and Space Science

- Observe, describe, and predict patterns of motion of the sun, moon, and stars
- Describe the 24-hour day-night cycle
- Observe, describe, and predict seasonal patterns of sunrise and sunset

Earth and Space Science

- Describe physical properties of soil and rocks
- Describe characteristics of soil, water, and air
- Observe and describe objects in space
- Observe and describe apparent movements of objects in space
- Describe changes in weather and seasons
- Discuss ways the environment provides resources for people
- Discuss some ways to protect the environment
- Describe weather and climate in terms of sunlight, precipitation, and temperature in a region
- Share observations of local weather
- Notice and record weather and climate patterns over time
- Discuss ways that animals and plants change their environment
- Draw or describe the relationship between needs of different plants and animals in the places they live (in such a setting as a desert or meadow)
- Describe ways to reduce people's adverse impact on land, water, air, living things
- Describe ways people use natural resources to get things they need

Life Science

- Describe the differences between living and nonliving things
- Describe the basic needs of living things
- Describe sources of food for plants and animals
- Describe sources of water and light for plants and animals
- Understand that living things grow and change
- Observe, describe, compare, and discuss living things
- Match plants and animals to their habitats
- Describe how animals resemble their parents
- Identify ways living things change as they grow
- Recognize seasonal changes in plants and animals
- Name external parts of some plants and animals
- Describe simple life cycles (butterfly or frog)
- Show respect for living things

Physical Science

- Observe, describe, and compare physical properties of objects (size, texture, shape, weight, color, freezing and melting, sinking or floating, etc.)
- Compare and sort objects according to physical attributes
- Identify such sources of energy as light, heat, and electricity
- Identify solids and liquids
- Understand that liquids take the shape of their containers
- Describe effects of common forces (pushing and pulling, kicking, wind, gravity, magnetism, etc.)
- Describe specific interactions between objects when they collide or touch
- Describe effects of smaller or bigger forces
- Observe the effects of sunlight on Earth's surface
- Design a structure to reduce the effects of sunlight on a specific area

Grade 1 Social Science

Economics

- Describe ways families meet basic human needs
- Describe similarities and differences in the ways different families meet basic human needs
- Identify examples of goods and services
- Understand that people make and use goods and services
- Identify ways that people exchange goods and services
- Distinguish between wants and needs
- Give examples of people wanting more than they can have
- Explain sources of income and why people work

- Discuss the idea of scarcity of goods, time, or money and the choices this requires
- Give examples of ways physical geography affects how people earn money
- Discuss the value and limitation of natural resources
- Identify roles and responsibilities of authority figures in the home, school, and community
- Describe some roles of public officials in the community, state (or province or territory), and nation
- Discuss the concept of saving
- Describe how technology affects communication, transportation, and the way people work

History

- Understand origins of holidays, customs, and celebrations of community, state (or province or territory), and nation
- Distinguish among past, present, and future
- Identify contributions of key historical figures in community, state (or province or territory), and nation
- Describe and present some stories from own family history
- Create and analyze calendars and simple timelines
- Describe events in terms of calendar time
- Compare lives of people in communities past and present
- Compare past and present technologies
- Use terms related to sequential order of events
- Find examples of historical fact and fiction in folktale and legends
- Put some recent events in chronological order
- Ask and answer historical questions about events in own life or community

Family, Community, and Culture

- Discuss the importance of families and communities
- Know that families pass on knowledge, language, values, customs, and traditions
- Identify some customs, beliefs or values, and traditions
- Understand the importance of respect and honor within families and communities
- Identify some ways language, customs, values, and traditions vary in different families and communities
- Recognize ways families celebrate important events in different ways
- Describe how technology changes the way families live
- Discuss, give examples of, and appreciate cultural diversity

Geography

- Describe some ways that people interact with their environments
- Identify important locations in the community
- Locate places using the four cardinal directions (north, south, east, west)
- Locate self, objects, and places relative to other locations
- Describe physical characteristics of places (landforms, bodies of water, natural resources, etc.)
- Discuss ways that human characteristics of a place (shelter, clothing, food, activities, etc.) are connected to geographic location
- Identify examples of and uses for natural resources in the community and state
- Create and use simple maps of house, classroom, school, and community
- Locate community, state (or province or territory), and country on a map or globe
- Identify important local, state (or provincial or territorial), or national natural and human-made features

Citizenship

- Explain the purpose for rules and laws in the home, school, community
- Identify rules and laws that establish order, provide safety, and manage conflict
- Identify some of the civic values of own family, school, and country
- Identify and practice behaviors of a good citizen in school, family, and community
- Identify and explain state (or provincial or territorial) and national patriotic symbols, anthems, and mottos

- Recite the Pledge of Allegiance (U.S.A.)
- Identify some of the leaders in own community, state (or province or territory), and country
- Identify some roles and responsibilities of authority figures
- Explain and practice voting as a way of making choices and decisions
- Participate in group decisions and problem solving

Grade 1 Health and Safety

- Define and give examples of health choices and their consequences
- Practice good personal hygiene
- Take measures to prevent spread of disease
- Identify and make healthy food choices
- Discuss how food choices are influenced by peers, media, family, and community
- Identify types of play and exercise that are good for the body
- Participate regularly in active play and other physical activities (contingent on any physical or other limitations)
- Understand reasons to get enough sleep and relaxation
- Follow safety rules during play and daily activities (walking, being near streets, water play, riding in a car, biking, etc.)
- Discuss and practice ways to prevent common childhood injuries, including poisoning
- Name objects that may be dangerous
- Recognize and discuss symptoms of common illnesses and diseases
- Explain causes and symptoms of common illnesses and diseases
- Know the basic structures and functions of the human body
- Identify in simple terms ways body defends against germs
- Identify health services in own community
- Distinguish between helpful and harmful situations
- Recognize and follow practices for responding to emergencies
- Know how to use a telephone in an emergency; provide name, address, telephone number
- Know how to get out of house or school in event of fire
- Show appropriate behavior during fire, earthquake, and other disaster drills
- Display appropriate skills to identify, avoid, report, and cope with potentially dangerous situations
- Identify safe behaviors around strangers
- Identify ways to get help if feeling unsafe, threatened, or abused
- Explain and practice refusal skills to avoid unsafe behavior situations
- Show development of self confidence and self esteem
- Demonstrate respect and consideration for all individuals
- Develop and display effective communication skills in social interactions
- Identify, express, and manage feelings appropriately
- Show positive social and practices with peers, in home, and community
- Show understanding of and respect for individual differences
- Identify and discuss bullying behaviors and alternative behaviors to bullying
- Describe appropriate responses to bullying of self or others
- Describe how to get help in solving conflicts with peers
- Explain and practice skills for meeting people and making friends

Grade 1 Arts

- Perform and describe movement activities
- Imitate simple movement patterns; learn simple dances
- Create and demonstrate improvised movements
- Read, write, and perform simple patterns of sounds and rhythms
- Describe musical forms
- Read and write patterns with musical notes

- Identify some musical instruments by sight and sound
- Sing age-appropriate songs with accuracy
- Play accompaniments on classroom instruments
- Improvise simple rhythms
- Dramatize or improvise simple stories
- Act out events or stories using language and props
- Describe patterns in nature and works of art
- Create and share original works of visual art in various media and dimensions
- Create two- and three-dimensional works of art
- Mix colors; draw or paint a still life
- Use visual and actual texture in original works of art
- Express observations, ideas, or feelings through music, drama, or visual art
- Identify and discuss some well-known works of dance, drama, music, and visual arts and some artists, actors, writers, musicians, choreographers, or composers
- Learn and use vocabulary of dance, music, drama, and visual arts
- Describe and respond to works of visual art
- Observe and respond to dance, music, and drama productions
- Demonstrate appropriate audience skills for live performances

Grade 1 Technology

- Identify basic parts of technology systems (computer, tablet, mouse, keyboard, printer, etc.)
- Identify and use devices for word processing and running software
- Demonstrate beginning keyboard skills
- Know how to open, close, save, and store files and programs
- Demonstrate responsible care and use of digital equipment
- Identify uses of technology in daily living
- Use tools to access and retrieve information
- Design original works using digital tools
- Interact with peers, teacher, parents, or other students using digital tools
- Use digital tools to publish individual or group creations
- Increase awareness of other groups and cultures through technology use
- Identify and define real-life problem or question to investigate
- Follow a plan to locate, process, and use information digitally
- Summarize and evaluate information gained digitally
- Understand and practice safe, responsible use of technology
- Practice a positive attitude toward using technology for learning
- Show openness to learning new technologies