

Grade 2 Program

Mathematics

Number and Operations

- Understands and represents place value to 4 digits using multiple representations (models, drawings, number sentences)
- Understands magnitude of numbers
- Uses equality and inequality signs
- Uses boxes and ___ to represent missing values
- Adds and subtracts two whole numbers up to 3 digits (with regrouping)
- Understands inverse relationship between addition and subtraction
- Uses mental math and benchmark numbers to solve problems
- Simplifies problems using basic properties of addition
- Estimates to determine reasonableness
- Uses repeated addition, arrays, skip counting to multiply and construct the multiplication table.
- Uses repeated subtraction, equal sharing, and forming equal groups to divide and determine factors for multiplication
- Solves multiplication problems using expressions.
- Models, identifies, labels, and compares fractions (thirds, sixths, eighth, tenths)
- Knows that all fractional parts result in a whole (i.e. three thirds)

Measurement

- Understands standard units of measure (inch, foot, yard, centimeter, meter)
- Measures to nearest inch or centimeter
- Estimates for reasonableness
- Determines appropriate tools and units
- Compares relationships of units of measure
- Tells time to nearest 5 minutes
- Knows time relationships (60 seconds/ minute, 60 minutes/hour, 24 hours/day)
- Determines reasonable temperature (Fahrenheit)
- Reads a thermometer (Fahrenheit/Celsius)

Geometry

- Describe/classify plane figures according to sides, vertices, and angles
- Describe/classify solid geometric figures according to edges, vertices, faces, and angles
- Describe changes as 2-D and 3-D shapes are cut and rearranged

Data Analysis and Probability

- Create, organize, and display data using pictographs, Venn diagrams, bar graphs, picture graphs, simple charts, and tables
- Interpret picture graphs, Venn diagrams, and bar graphs
- Use scale increments of 1, 2, and 5

Process Skills

- Solves problems
- Reasons and evaluates mathematical arguments
- Communicates mathematically
- Makes connections among mathematical ideas and to other disciplines
- Represents mathematics in multiple ways
- Recognizes and applies mathematics in contexts outside of mathematics

English/Language Arts

Phonics/ Word Identification

- Applies letter-sound correspondence to decode unfamiliar words
- Applies skills to reading words, sentences, and stories
- Reads words with consonant blends, digraphs, and diphthongs
- Recognizes, reads, and writes words with regular/ irregular plurals and possessives
- Reads compound words and contractions in grade-appropriate texts
- Reads and spells words w/r-controlled vowels and silent letters
- Reads/spells words w/irregular vowel patterns
- Reads multisyllabic words
- Uses spelling patterns to decode words

Fluency

- Reads grade-level words 90 words correct per minute
- Reads familiar text with appropriate expression
- Decodes quickly and accurately
- Uses self-correction where indicated

Vocabulary

- Uses new words orally and in writing
- Recognizes/applies appropriate use of antonyms, synonyms, homophones
- Uses context to determine meaning of unknown words

Comprehension

- Reads texts
- Predicts from content
- Generates questions before, during, after reading
- Recalls explicit facts/infers implicit facts
- Summarizes text content
- Distinguishes fact from fiction in text
- Makes connections between texts and experiences
- Identifies/infers main idea/supporting details
- Self-monitors/attempts to clarify meaning
- Identifies/infers cause-effect
- Uses word parts to determine meanings
- Uses dictionary, thesaurus, glossary skills to determine word meanings
- Recognizes plot, setting, character in texts; compares/contrasts these elements among texts
- Recognizes basic elements of variety of genres (poetry, fables, folktales)
- Interprets information from illustrations, diagrams, charts graphs, and graphic organizers
- Uses titles, tables of contents, and chapter headings to locate information quickly and accurately and to preview text
- Recognizes author's purpose

Writing

- Writes texts of appropriate length to address topic/tell story
- Rereads writing to self/others, revises to add details, edits to make corrections

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- Prewrites to generate ideas orally
- Uses planning ideas to produce a rough draft
- Creates documents with legible handwriting
- Uses appropriate capitalization/punctuation (periods/question and exclamation marks) at end of sentences (declarative/interrogative/exclamatory; simple/compound)
- Recognizes appropriate use of quotation marks
- Consistently writes in complete sentences/correct subject/verb agreement
- Uses nouns (singular/plural/possessive) correctly
- Uses singular/plural personal pronouns
- Uses singular possessive pronouns
- Uses increasingly complex sentence structure
- Uses common rules of spelling
- Begins to use commas (in series, dates, after a friendly letter greeting, in friendly letter closure, between cities and states) and periods after grade appropriate abbreviations
- Uses dictionary and thesaurus to support word choices
- Uses traditional organizational patterns for conveying information (chronological order, similarity/difference, answering questions)
- Uses transition words/phrases
- Begins to create graphic features (charts, tables, graphs)
- Begins to use appropriate formatting conventions for letter writing (date/ salutation/body/ closing)
- Begins to write response to literature that demonstrates understanding of the text and expresses/supports opinion
- Begins to write persuasive piece that states/supports opinion

Listening/Speaking/Viewing

- Interprets information presented and seeks clarification when needed
- Begins to use oral language for different purposes- to inform/persuade/entertain
- Increases vocabulary to reflect growing range of interest and knowledge
- Uses increasingly complex language patterns/sentence structure when communicating
- Listens to/views variety of media to acquire information

Science

Life Science

- Understands how, where and why plants grow
- Understands the life cycle of plants
- Classifies animal into the six main families
- Compares and describes various animals—appearance, motion, growth, basic needs
- Determines the sequence of the life cycle of common animals: a mammal such as a cat or dog or classroom pet, a bird such as a chicken, an amphibian such as a frog, and an insect such as a butterfly
- Identifies the basic needs of animals and plants

Earth Science

- Identifies different types of weather and the characteristics of each type
- Recognizes effects that occur in a specific area caused by weather, plants, animals, and/or people
- Identifies and describes landforms (mountains, deserts, valleys, plains, plateaus, and coasts)
- Describes the physical attributes of stars—size, brightness, and patterns
- Understands reasons for night and day, seasons
- Understands reasons for shadows

Physical Science

- Identifies sources of light energy, heat energy, and energy of motion
- Describes how light, heat, and motion energy are used
- Demonstrates how pushing and pulling an object affects the motion of the object
- Demonstrates the effects of changes of speed on an object
- Identifies the three common states of matter as solid, liquid, or gas
- Investigates changes in objects by tearing, dissolving, melting, squeezing, etc...
- Raises questions about the world around them and is willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out

Social Studies

- Understands, identifies and labels the cardinal directions on a map
- Uses a map key/legend
- Identifies and locates his/her city, county, state, nation, and continent on a simple map or a globe
- Understands how communities are organized
- Demonstrates an understanding of good citizenship
- Explains how rules are made and why
- Explains why rules should be followed
- Describes the work that people do (police officer, fire fighter, soldier, mail carrier, baker, farmer, doctor, and teacher, etc...)
- Understands ancient cultures and civilizations in terms of daily life, work, food, shelter, traditions, society, culture, mythology
- Makes comparisons between life today and life during other historical periods
- Understands the impact ancient cultures have had on today's cultures
- Begins to understand timelines and our relative place in history

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