

CMS 3rd Grade Benchmarks

August 2008 Revision

English Language Arts	Math
<p>Decodes multi-syllabic words.</p> <p>Identifies complex word structures (i.e., contractions, plurals, compound words, prefixes, root words, suffixes, synonyms, antonyms, homophones, and homographs) to grasp the meaning of unfamiliar words.</p> <p>Grasps the meaning of unfamiliar vocabulary words through contextual clues within two or more sentences.</p> <p>Identifies grade-level sight words.</p> <p>Demonstrates literal reading comprehension of grade level selections by:</p> <ul style="list-style-type: none"> • locating information, • following directions, • sequencing events, • identifying main idea and details, and • determining cause and effect. <p>Reads 80 to 115 correct words per minute.</p> <p>Reads aloud with proper phrasing guided by punctuation and text features (ex. bold font, onomatopoeias).</p> <p>Understands the meaning of narrative and expository texts by:</p> <ul style="list-style-type: none"> • monitoring comprehension through making and verifying predictions; • activating and connecting background knowledge to new information (i.e., text-to-self); • inferring to reveal big ideas and themes supported by evidence from the text with guidance; • determining important information by analyzing story elements (i.e., characterization, setting, plot, and conflict resolution) with guidance; • summarizing and synthesizing with guidance by telling what is important without telling too much; • identifying literary devices and characteristics of genres; • evaluating author's technique, viewpoint, and persuasive elements; and • distinguishing between fact and opinion. <p>Participates in group literature discussion with guidance.</p> <p>Speaks in English to convey a clear main idea, using grade level and subject appropriate vocabulary.</p> <p>Speaks in English clearly using appropriate pace, expressions, volume, and facial/body gestures.</p> <p>Expresses in English an opinion concisely and accurately.</p> <p>Presents orally in English by:</p> <ul style="list-style-type: none"> • speaking clearly and distinctly with appropriate rate, volume, and pacing; • pronouncing grade-level appropriate words correctly; • answering questions concisely and accurately with assistance; and • using appropriate body language. <p>Writes with a central idea.</p> <p>Organizes ideas in a logical sequence in fiction and nonfiction writing with guidance.</p> <p>Edits for: capitalization at the beginning of sentences, with proper nouns, and within dates; commas in dates and lists; apostrophes in contractions, end punctuation; indentation; and proper spelling of high frequency words.</p> <p>Demonstrates understanding of grade level basic grammar and usage (i.e., adjectives, nouns, pronouns, and verbs).</p> <p>Writes about feelings and opinions.</p> <p>Writes using simple sentences that have a subject and predicate.</p> <p>Uses appropriate vocabulary to convey meaning.</p>	<p>Reads and writes whole numbers up to 1,000,000; reads, writes, and models with manipulatives decimals through hundredths; identifies places in such numbers and the values of the digits in those places; translates between whole numbers and decimals represented in words, in base-10 notation, and with manipulatives.</p> <p>Reads, writes, and models fractions; solves problems involving fractional parts of a region or a collection; describes strategies used.</p> <p>Finds multiples of 2, 5, and 10.</p> <p>Uses numerical expressions involving one or more of the basic four arithmetic operations to give equivalent names for whole numbers.</p> <p>Uses manipulatives and drawings to find and represent equivalent names for fractions; uses manipulatives to generate equivalent fractions.</p> <p>Compares and order whole numbers up to 1,000,000; uses manipulatives to order decimals through hundredths; uses area models and benchmark fractions to compare and order fractions.</p> <p>Demonstrates automaticity with all addition and subtraction facts through $10 + 10$; use basic facts to compute fact extensions such as $80 + 70$.</p> <p>Uses manipulatives, mental arithmetic, paper-and-pencil algorithms, and calculators to solve problems involving the addition and subtraction of whole numbers and decimals in a money context; describes the strategies used and explains how they work.</p> <p>Demonstrates automaticity with $\times 0$, $\times 1$, $\times 2$, $\times 5$, and $\times 10$ multiplication facts; uses strategies to compute remaining facts up to 10×10.</p> <p>Uses arrays, mental arithmetic, paper-and-pencil algorithms, and calculators to solve problems involving the multiplication of 2- and 3-digit whole numbers by 1-digit and describes the strategies used.</p> <p>Makes reasonable estimates for whole number addition and subtraction problems; explains how the estimates were obtained.</p> <p>Recognizes and describes change, comparison, and parts-and-total situations; uses repeated addition, arrays, and skip counting to model multiplication; uses equal sharing and equal grouping to model division.</p> <p>Collects and organizes data or uses given data to create charts, tables, bar graphs, and line plots.</p> <p>Uses graphs to ask simple questions and draw conclusions; finds the maximum, minimum, range, mode, and median of a data set.</p> <p>Describes events using certain, very likely, likely, unlikely, very unlikely, impossible and other basic probability terms; explains the choice of language.</p> <p>Predicts the outcomes of simple experiments and tests the predictions using manipulatives; express the probability of an event by using "_ out of _" language.</p> <p>Estimates length with and without tools; measure length to the nearest $\frac{1}{2}$ inch and $\frac{1}{2}$ centimeter; draw and describes angles of records of rotations.</p> <p>Describes and uses strategies to measure the perimeter of polygons; counts unit squares to find the areas of rectangles.</p> <p>Describes relationships among inches, feet, and yards; describes relationships between minutes in an hour, hours in a day, days in a week.</p> <p>Tells and shows time to the nearest minute on an analog clock; tells and writes time in digital notation.</p> <p>Identifies and draws points, intersecting and parallel line segments, and lines, rays, and right angles.</p> <p>Identifies, describes, models, and compares plane and solid figures including circles, polygons, spheres, cylinders, rectangular prisms, pyramids, cones, and cubes using appropriate geometric terms including the terms face, edge, vertex, and base.</p> <p>Creates and completes two-dimensional symmetric shapes or designs; locates multiple lines of symmetry in a two-dimensional shape.</p> <p>Extends, describes, and creates numeric patterns; describes rules for patterns and use them to solve problems; uses words and symbols to describe and write rules for functions involving addition, subtraction, and multiplication and use those rules to solve problems.</p> <p>Reads, writes, and explains number sentences using the symbols $+$, $-$, \times, \div, $=$, $>$, and $<$; solve number sentences, writes expressions and number sentences to model number stories.</p> <p>Recognizes that numeric expressions can have different values depending on the order in which operations are carried out; understands that grouping symbols can be used to affect the order in which operations are carried out.</p> <p>Describes and applies the Commutative and Associative Properties of Addition, the Commutative Property of Multiplication, and the Multiplicative Identity.</p> <p>Uses grade level appropriate core concepts and procedures to solve the problem.</p> <p>Chooses and carries out strategies that work to solve grade level problems.</p> <p>Uses pictures, symbols, and/or vocabulary to convey the path to the identifiable solution to grade level problems.</p>

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Science	Social Studies
<p>Describes the water cycle.</p> <p>Knows that rock is composed of different combinations of minerals.</p> <p>Knows that fossils provide evidence about the plants and animals that lived long ago and the nature of the environment at that time.</p> <p>Knows that night and day are caused by the Earth's rotation on its axis.</p> <p>Knows that the Earth is one of several planets that orbit the Sun and that the Moon orbits the Earth.</p> <p>Knows that many characteristics of plants and animals are inherited from its parents (e.g., eye color in human beings, fruit or flower color in plants), and other characteristics result from an individual's interactions with the environment (e.g., people's table manners, ability to ride a bicycle).</p> <p>Knows that plants and animals progress through life cycles of birth, growth and development, reproduction, and death; the details of these life cycles are different for different organisms.</p> <p>Knows that living organisms have distinct structures and body systems that serve specific functions in growth, survival, and reproduction (e.g., various body structures for walking, flying, or swimming).</p> <p>Knows the organization of simple food chains (e.g., green plants make their own food with sunlight, water, and air; some animals eat the plants; some animals eat the animals that eat the plants).</p> <p>Knows that the transfer of energy (e.g., through the consumption of food) is essential to all living organisms.</p> <p>Knows that changes in the environment can have different effects on different organisms (e.g., some organisms move in, others move out; some organisms survive and reproduce, others die).</p> <p>Knows that all organisms (including humans) cause changes in their environments, and these changes can be beneficial or detrimental.</p> <p>Knows that fossils can be compared to one another and to living organisms to observe their similarities and differences.</p> <p>Categorizes living things according to traits (e.g., plants/animals, bones/no bones, insects/spiders, live on land/live in water) and justifies purposes of different groupings.</p> <p>Knows that matter has different states (i.e., solid, liquid, gas).</p> <p>Knows that materials may be composed of parts that are too small to be seen without magnification.</p> <p>Describes and demonstrates how the Earth's gravity pulls any object toward it without touching it.</p> <p>Uses concepts, strategies, symbols, and procedures to solve problems.</p> <p>Conducts simple investigations and/or collects or records data to draw conclusions.</p> <p>Asks cause and effect questions throughout the scientific process.</p> <p>Develops predictions and explanations based on previous experience and readings.</p> <p>Understands simple cause-and-effect relationships based on previous experience and readings.</p>	<p>Knows the basic elements of maps and globes (e.g., title, legend, cardinal and intermediate directions, scale, grid, principal parallels, meridians, projection).</p> <p>Uses map grids (e.g., latitude and longitude or alphanumeric system) to plot absolute location.</p> <p>Knows the characteristics of a variety of regions.</p> <p>Knows the similarities and differences in characteristics of culture in different regions (e.g., in terms of environment and resources, technology, food, shelter, social organization, beliefs and customs, schooling, what girls and boys are allowed to do).</p> <p>Knows the ways people use and alter the physical environment to the change the community.</p> <p>Knows the various ways in which people satisfy their basic needs and wants through the production of goods and services in different regions of the world (e.g., growing food and shopping for food in a developing vs. a developed society, economic activities in a rural region vs. those in an urban region).</p> <p>Knows how and why people divide Earth's surface into political and/or economic units (e.g., states in the United States and Mexico; provinces in Canada; countries in N and S America; countries linked in cooperative relationships, such as the E U).</p> <p>Knows the major transportation routes that link resources with consumers and the transportation modes used (e.g., ships, pipelines, barges, railroads).</p> <p>Knows the ways that families long ago expressed and transmitted their beliefs and values through oral tradition, literature, songs, art, religion, celebrations, mementos, food, and language.</p> <p>Understands how people in the local community have displayed courage in helping the common good (e.g., volunteering in unique situations including earthquakes, floods, and fires).</p> <p>Understands how people have helped make the community a better place to live (e.g., working to preserve the environment, helping the homeless, restoring houses in low-income areas).</p> <p>Knows how to interpret data presented in time lines (e.g., identify the time at which events occurred; the sequence in which events developed; what else was occurring at the time).</p> <p>Understands that different groups, societies, and cultures may have different ways of meeting similar wants and needs.</p> <p>Knows that language, stories, folktales, music, and artistic creations are expressions of culture.</p> <p>Knows the difference between power (e.g., the capacity to direct or control something or someone) and authority (e.g., power that people have the right to use because of custom, law, or the consent of the governed).</p> <p>Knows the major things governments do in one's school, community, state, and nation (e.g., make, carry out, and enforce laws; manage conflicts; provide security).</p> <p>Knows common ways in which rules and laws can be used (e.g., to describe how people should behave; to provide order, predictability, and security; to protect rights; to provide benefits; to assign responsibilities; to limit the power of people).</p> <p>Understands the common forms of diversity in the world.</p> <p>Knows that nations interact with other nation in the world.</p> <p>Knows the role for leadership and public service in the student's own classroom, school, community, state, and the nation; and understands why leadership and public service are important to the continuance and improvement of American democracy.</p> <p>Knows that different currencies are used in different countries.</p>