

CMS 1st Grade Benchmarks

August 2008 Revision

English Language Arts	Math
<p>Identifies beginning and ending sounds (i.e., consonant clusters of two letters).</p> <p>Identifies and decodes short vowel sounds (i.e., c-v-c).</p> <p>Identifies and decodes long vowel sounds (i.e., c-v-c-e).</p> <p>Grasps the meaning of unfamiliar vocabulary words through pictures.</p> <p>Identifies grade-level sight words.</p> <p>Reads 40 to 60 correct words per minute.</p> <p>Reads aloud with proper phrasing guided by periods.</p> <p>Understands the meaning of narrative and expository texts by:</p> <ul style="list-style-type: none"> • monitoring comprehension by answering questions about the pictures, text, and details; • activating and connecting background knowledge to new information during guided reading with teacher prompts; • predicting with supporting evidence from the text; and • determining important information by analyzing story elements (characters, setting, plot, and conflict resolution) with guidance. <p>Participates in small group discussions about books during guided reading.</p> <p>Speaks in English to convey ideas, thoughts, and feelings.</p> <p>Speaks in English using grade level and subject appropriate vocabulary.</p> <p>Speaks in English audibly and clearly using appropriate pace and expression.</p> <p>Expresses in English an opinion with assistance.</p> <p>Shares information orally in English by speaking clearly with appropriate volume, pace, and expression.</p> <p>Writes a recognizable general idea that conveys meaning.</p> <p>Attempts to write using beginnings, sequencing, and transitions.</p> <p>Writes: using phonetic spelling (e.g., c-v-c and c-v-c-e words); using capitalization at the beginning of sentences and names; using end marks; spelling sight words correctly; and spacing properly between words.</p> <p>Repeats familiar ideas and expresses some moments of feeling or individuality.</p> <p>Uses basic complete sentences (i.e., that tend to sound the same).</p> <p>Uses recognizable words and phrases with accuracy.</p>	<p>Count on by 1s, 2s, 5s, and 10s past 100 and back by 1s from any number less than 100 with and without number grids, number lines, and calculators.</p> <p>Count collections of objects accurately and reliably; estimate the number of objects in a collection.</p> <p>Read, write, and model with manipulatives whole numbers up to 1,000; identify places in such numbers and the values of the digits in those places.</p> <p>Use manipulatives and drawings to model halves, thirds, and fourths as equal parts of a region or a collection; describe the model.</p> <p>Use manipulatives to identify and model odd and even numbers.</p> <p>Use manipulatives, drawings, tally marks, and numerical expressions involving addition and subtraction of 1- or 2-digit numbers to give equivalent names for whole numbers up to 100.</p> <p>Compare and order whole numbers up to 1,000.</p> <p>Demonstrate proficiency with $+/- 0$, $+/- 1$, doubles, and sum-equals-ten addition and subtraction facts such as $6 + 4 = 10$ and $10 - 7 = 3$.</p> <p>Use manipulatives, number grids, tally marks, mental arithmetic, and calculators to solve problems involving the addition and subtraction of 1-digit whole numbers with 1- or 2-digit whole numbers; calculate and compare the values of combinations and coins.</p> <p>Estimate reasonableness of answers to basic fact problems (e.g., Will $7 + 8$ be more or less than 10?).</p> <p>Identify change to more, change-to-less, comparison, and parts-and-total situations.</p> <p>Collect and organize data to create tally charts, tables, bar graphs, and line plots.</p> <p>Use graphs to answer simple questions and draw conclusions; find the maximum and minimum of a data set.</p> <p>Describe events using certain, likely, unlikely, impossible and other basic probability terms.</p> <p>Use nonstandard tools and techniques to estimate and compare weight and length; measure length with standard measuring tools.</p> <p>Know and compare the value of pennies, nickels, dimes, quarters, and dollar bills; make exchanges between coins.</p> <p>Identify a thermometer as a tool for measuring temperature; read temperatures on Fahrenheit and Celsius thermometers to the nearest 10°.</p> <p>Use a calendar to identify days, weeks, months, and dates; tell and show time to the nearest half and quarter hour on an analog clock.</p> <p>Identify and describe plane and solid figures including circles, triangles, squares, rectangles, spheres, cylinders, rectangular prisms, pyramids, cones, and cubes.</p> <p>Identify shapes having lines symmetry; complete line-symmetric shapes or designs.</p> <p>Extend, describe, and create numeric, visual, and concrete patterns; solve problems involving function machines, "What's My Rule?" tables, and Frames-and-Arrows diagrams.</p> <p>Read, write, and explain expressions and number sentences using the symbols $+$, $-$, and $=$ and the symbols $>$ and $<$ with cues; solve equations involving addition and subtraction.</p> <p>Apply the Commutative Property of Addition and the Additive Identity to basic addition fact problems.</p> <p>Finds the mathematical question within a grade level word problem.</p> <p>Uses grade level appropriate core concepts 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>Knows how the environment changes over the seasons (e.g., rainy and dry).</p> <p>Identifies Earth materials as solids, liquids, and gases.</p> <p>Knows properties of a number of Earth materials (e.g., rocks, soil, water).</p> <p>Knows basic patterns of the Sun and Moon (e.g., the Sun appears every day and the Moon appears sometimes at night and sometimes during the day; the Sun and Moon appear to move from east to west across the sky; the Moon appears to change shape over the course of a month).</p> <p>Demonstrates an understanding of the Earth and its relationship in the Solar System.</p> <p>Knows the basic needs of plants, animals, and humans (e.g., air, water, nutrients, light or food, shelter, food pyramid).</p> <p>Knows that plants, animals, and humans need certain resources to meet their needs.</p> <p>Knows that the physical properties of things can change and that things can be done to materials to change their properties (e.g., heating, freezing, mixing, cutting, dissolving, bending).</p> <p>Knows that different objects are made up of many different types of materials (e.g., cloth, paper, wood, metal) and have many different observable properties (e.g., color, size, shape, weight).</p> <p>Uses grade level appropriate core concepts and principles to solve the problem.</p> <p>Responds to grade-level scientific questions and explain why through writing and/or pictures.</p> <p>Brainstorms a variety of solutions to a scientific problem with assistance.</p> <p>Records information collected about the physical world (e.g., in drawings, simple data charts) with guidance.</p> <p>Conducts simple investigations to solve a grade level problem or answer a question using appropriate tools.</p> <p>Asks questions throughout the scientific process with guidance.</p> <p>Develops predictions based on prior knowledge.</p> <p>Understands simple cause-and-effect relationships based on experimentation.</p>	<p>Knows geographic information about oneself (e.g., the town in which he or she lives, address, phone number, the location of school, home, neighborhood, community, state, and country).</p> <p>Knows the physical characteristics of the local community (e.g., neighborhoods, schools, parks, creeks, shopping areas, airports, museums, sports stadiums, hospitals).</p> <p>Knows that places can be defined in terms of their predominant human and physical characteristics (e.g., rural, urban, forest, desert; or by types of land forms, vegetation, water bodies, climate).</p> <p>Knows the modes of transportation used to move people, products and ideas from place to place (e.g., barges, airplanes, automobiles, pipelines, ships, railroads), their importance and their advantages and disadvantages.</p> <p>Understands why people choose to settle in different places (e.g., job opportunities, available land, and climate).</p> <p>Knows how people affect the environment in negative (e.g., litter, pollution) and positive (e.g., recycling, picking up litter) ways.</p> <p>Knows how areas of a community have changed over time (in terms of, e.g., size and style of homes; how people earn their living; changes in the plant and animal population).</p> <p>Understands and compares life today and the past (e.g., clothes, homes, food, communication, roles, jobs, technology, school, and cultural traditions).</p> <p>Understands the reasons that people celebrate certain national holidays.</p> <p>Understands how symbols, slogans, and mottoes represent a group of people.</p> <p>Knows important buildings, statues, and monuments in the community's history.</p> <p>Understands the value of fairness, individual rights, and responsibility as it applies to self.</p> <p>Understands the life, history, and beliefs of a country as reflected in dance, music, or the other art forms (such as paintings, sculptures, and masks).</p> <p>Knows how to develop picture time lines of their own lives or their family's history.</p> <p>Knows that people belong to some groups because they are born into them and to some groups because they join them.</p> <p>Knows that people tend to live in families and communities in which individuals have different roles.</p> <p>Understands that rules at home, at school, and in the community let individuals know what to expect and so can reduce the number of disputes.</p> <p>Understands rules at school and the community and the purposes they serve.</p> <p>Understands the concept of fairness when rules are applied or enforced.</p> <p>Understands that all people have rights.</p> <p>Knows differences between goods and services.</p> <p>Knows that people make choices to satisfy their needs and/or wants.</p> <p>Understands that in an exchange people trade goods and services for other goods and services or for money.</p>