

Language Arts

Reading

2nd Grade

Benchmark Code – Subject: Language Arts = LA

Strand 1= Literature

Strand 2= Informational Text

Strand 3= Foundational Skills

Strand 4= Writing

Strand 5= Communication

Strand 6= Language

Strand 7= Media Literacy

Code: Subject.Grade.Strand#.Standard#. Benchmark#

Example: LA.2.1.4.3 – Language Arts, Second Grade, Strand 1, Standard 4, Benchmark 3

Strand 1: Literature

Standard 1: The student reads closely to identify key ideas and details in literature.

Benchmark Code	Benchmark
LA.2.1.1.1	The student will ask and answer such questions as <i>who, what, where, when, why, and how</i> to demonstrate understanding of key details in a literature text.
LA.2.1.1.2	The student will recount stories, including fables and folktales from diverse cultures, and determine their central message, lesson, or moral.
LA.2.1.1.3	The student will describe how characters in a story respond to major events and challenges.

Standard 2: The student identifies the craft and structure of a story or selection.

Benchmark Code	Benchmark
LA.2.1.2.1	The student will describe how words and phrases (e.g. regular beats, alliteration, rhymes, repeated lines) supply rhythm and meaning in a story, poem, or song.
LA.2.1.2.2	The student will describe how the overall structure of a story, including describing how the beginning introduces the story and the ending concludes the action.
LA.2.1.2.3	The student will acknowledge differences of characters, including identifying who is telling the story at various points in a text and speaking in a different voice for each character when reading dialogue aloud.

Standard 3: The student integrates knowledge and ideas in literature.	
Benchmark Code	Benchmark
LA.2.1.3.1	The student will use illustration from the illustrations and words in a print or digital text to demonstrate understanding of its characters, setting, or plot.
LA.2.1.3.2	The student will compare and contrast two or more versions of the same story by different authors or from different cultures.
Standard 4: The student increases own range of reading and level of text complexity in literature.	
Benchmark Code	Benchmark
LA.2.1.4.1	The student will read and comprehend literature, including stories and poetry, in the grades 2-3 text complexity band proficiently, with scaffolding as needed at the high end of the range, by the end of the year.
Strand 2: Informational Text	
Standard 1: The student reads closely to identify key ideas and details in informational text.	
Benchmark Code	Benchmark
LA.2.2.1.1	The student will ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in an informational text.
LA.2.2.1.2	The student will identify the main topic of a multi-paragraph text as well as the focus of specific paragraphs within the text.
LA.2.2.1.3	The student will describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text
Standard 2: The student identifies the craft and structure of an informational text.	
Benchmark Code	Benchmark
LA.2.2.2.1	The student will determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.
LA.2.2.2.2	The student will know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently.
LA.2.2.2.3	The student will identify the main purpose of a text, including what the author wants to answer, explain, or describe.
Standard 3: The student integrates knowledge and ideas in informational text.	
Benchmark Code	Benchmark
LA.2.2.3.1	The student will explain how specific images (e.g., a diagram showing how a machine works) and text features contribute to and clarify a text.

LA.2.2.3.2	The student will describe how reasons support specific points the author makes in a text.
LA.2.2.3.3	The student will compare and contrast the most important points presented by two texts on the same topic.
Standard 4: The student will increase own range of reading and level of text complexity in informational text.	
Benchmark Code	Benchmark
LA.2.2.4.1	The student will read and comprehend informational texts, including history/social studies, science, and technical texts, in the grades 2-3 text complexity band proficiently, with scaffolding as needed at the high end of the range by the end of the year.
Strand 3: Foundational Skills	
Standard 1: Phonics and Word Recognition. The student knows and applies grade-level phonics and word analysis skills in decoding words.	
Benchmark Code	Benchmark
LA.2.3.1.1	The student will distinguish long and short vowels when reading regularly spelled one-syllable words.
LA.2.3.1.2	The student will know spelling-sound correspondences for additional common vowel teams.
LA.2.3.1.3	The student will decode regularly spelled two-syllable words with long vowels.
LA.2.3.1.4	The student will decode words with common prefixes and suffixes.
LA.2.2.1.5	The student will identify words with inconsistent but common spelling-sound correspondences.
LA.2.2.1.6	The student will recognize and read grade-appropriate irregularly spelled words.
LA.2.3.1.7	The student will generalize learned spelling patterns when writing and reading words. (e.g. cage—badge, boy—boil)
LA.2.3.1.8	The student will consult reference materials, including beginning dictionaries as needed to check and correct spellings.
Standard 2: Fluency. The student reads with sufficient accuracy and fluency to support comprehension.	
Benchmark Code	Benchmark
LA.2.3.2.1	The student will read on-level text with purpose and understanding.
LA.2.3.2.2	The student will read on-level text orally with accuracy, appropriate rate, and expression on successive readings.
LA.2.3.2.3	The student will use context to confirm or self-correct word recognition and understanding, rereading as necessary.

Strand 4: Writing	
Standard 1: Text Type and Purposes	
Benchmark Code	Benchmark
LA.2.4.1.1	The student will write opinion pieces in which they introduce the topic or book they are writing about, state an opinion, supply reasons that support the opinion, use linking words (e.g., <i>because</i> , <i>and</i> , <i>also</i>) to connect opinion and reasons, and provide a concluding statement or section.
LA.2.4.1.2	The student will write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section.
LA.2.4.1.3	The student will write narratives in which they recount a well-elaborated event or short sequence of events, include details to describe actions, thoughts, and feelings, use temporal words to signal event order, and provide a sense of closure.
Standard 2: Production and Distribution of Writing	
Benchmark Code	Benchmark
LA.2.4.2.1	The student will focus on a topic and strengthen writing as needed by revising and editing with guidance and support from adults and peers.
Standard 3: Research to Build and Present Knowledge. The student uses a systematic process for the collection, processing, and presentation of information.	
Benchmark Code	Benchmark
LA.2.4.3.1	The student will participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations).
LA.2.4.3.2	The student will recall information from experiences or gather information from provided sources (e.g., atlases, nonfiction books, dictionaries, digital references) to answer a question.
LA.2.6.3.3	The student will record the authors and titles of works.
Strand 5: Communication	
Standard 1: Penmanship. The student engages in the writing process and writes to communicate ideas and experiences.	
Benchmark Code	Benchmark
LA.2.5.1.1	The student will demonstrate legible printing skills.

Standard 2: Listening and Speaking. The student participate in collaborative conversations with diverse partners about *grade 2 topics and texts* with peers and adults in small and larger groups.

Benchmark Code	Benchmark
LA.2.5.2.1	The student will follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion).
LA.2.5.2.2	The student will build on others' talk in conversations by linking their comments to the remarks of others.
LA.2.5.2.3	The student will ask for clarification and further explanation as needed about the topics and texts under discussion.
LA.2.5.2.4	The student will recount or describe key ideas or details from a text read aloud or information presented orally or through other media.
LA.2.5.2.5	The student will ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.
LA.2.5.2.6	The student will tell a story or recount an experience with appropriate facts and relevant, descriptive details, speaking audibly in coherent sentences.
LA.2.5.2.7	The student will create audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings.
LA.2.5.2.8	The student will produce complete sentences when appropriate to task and situation in order to provide requested detail of clarification.

Strand 6: Language

Standard 1: Language Conventions. The student demonstrates command of the conventions of standard English grammar and usage when writing or speaking.

Benchmark Code	Benchmark
LA.2.6.1.1	The student will write a range of complete sentences (declarative, interrogative, and exclamatory) with corresponding ending marks appropriately and experiment with compound sentences.
LA.2.6.1.2	The student will begin to use plural nouns including frequently occurring irregular plural nouns and noun/pronoun agreement appropriately and experiments with the singular and plural possessive.

LA.2.6.1.3	The student will write in 1 st and 2 nd person present correctly and begin to use 3 rd person present appropriately and experiments with the present perfect in oral language.
LA.2.6.1.4	The student will use the past tense for regular and common irregular verbs from the grade level verb list appropriately.
LA.2.6.1.5	The student will use subject and most object pronouns correctly and experiments with possessive and indefinite pronouns.
LA.2.6.1.6	The student will write in the future tense appropriately.
LA.2.6.1.7	The student will use most adjectives appropriately, begins to use adverbs appropriately, and experiments with comparing adjectives.
LA.2.6.1.8	The student will use prepositional phrases appropriately.
LA.2.6.1.9	The student will use capital letters for the pronoun I, the beginning of a sentence, names of people and places, days of the week, months of the year, titles, and others appropriately.
LA.2.6.1.10	The student will begin to use commas in dates, items in a series, and greetings and closings of letters.
LA.2.6.1.11	The student will begin to use new punctuation in writing: quotation marks in dialogue, apostrophes in possessives and contractions, and periods in abbreviations.
Standard 2: Vocabulary Acquisition and Use. The student determines the meaning of unknown words and phrases, understands word relationships in word meanings, and uses acquired words and phrases.	
Benchmark Code	Benchmark
LA.2.6.2.1	The student will use sentence-level context as a clue to the meaning of a word or phrase.
LA.2.6.2.2	The student will determine the meaning of the new word formed when a known prefix is added to a known word (e.g., <i>happy/unhappy, tell/retell</i>).
LA.2.6.2.3	The student will use a root word as a clue to the meaning of an unknown word with the same root (e.g., <i>addition, additional</i>).
LA.2.6.2.4	The student will use knowledge of the meaning of individual words to predict the meaning of compound words (e.g., <i>birdhouse, lighthouse, housefly, bookshelf, notebook, and bookmark</i>).
LA.2.6.2.5	The student will determine meanings of unfamiliar words by using a dictionary and digital tools.
LA.2.6.2.6	The student will identify real-life connections between words and their use (e.g., describe foods that are <i>spicy or juicy</i>).
LA.2.6.2.7	The student will distinguish shades of meaning among closely related verbs (e.g., <i>toss, throw, hurl</i>) and closely related adjectives (e.g., <i>thin, slender, skinny, scrawny</i>) including antonyms.

LA.2.6.2.8	The student will use words and phrase acquired through conversations, reading and being read to, and responding to texts, including using adjectives and adverbs to describe (e.g., <i>when other kids are happy that makes me happy</i>).
Strand 7: Media Literacy	
Standard 1: Media Literacy. The student develops and demonstrates an understanding of media literacy as a life skill that is integral to informed decision making.	
Benchmark Code	Benchmark
LA.2.7.1.1	The student will recognize that non-print media affect thoughts and feelings (e.g., graphics, music, digital video).
LA.2.7.1.2	The student will identify types of mass communication (e.g., film, newspapers, radio, digital technology).
Standard 2: Technology. The student develops the essential technology skills for using and understanding conventional and current tools, materials, and processes.	
Benchmark Code	Benchmark
LA.2.7.2.1	The student will use appropriate available technologies to enhance communication and achieve a purpose (e.g., video, presentations).
LA.2.7.2.2	The student will use a variety of digital tools to produce and publish writing, with guidance and support from adults including collaboration with peers.

Math 2nd Grade

Benchmark Code – Subject: Math = M

Strand 1: Number

Strand 2: Measurement

Strand 3: Probability and Statistics

Strand 4: Geometry

Strand 5: Algebra

Code: Subject (M, S, SS, LA).Grade#.Strand#.Standard#. Benchmark# (S) = Spanish

Example: M.2.1.4.3 – Math, Second Grade, Strand 1, Standard 4, Benchmark 3

Strand 1: Number

Standard 1: The student understands and uses number notation and place value up to 1,000.

Benchmark Code	Benchmark
M.2.1.1.1	The student will count by ones, twos, fives, tens, and hundreds.
M.2.1.1.2	The student will identify numbers as even or odd and explain why they are odd or even.
M.2.1.1.3	The student will read and write numbers up to 1,000 in numerals and in words.
M.2.1.1.4	The student will recognize the place values of numbers (Thousands, hundreds, tens, and ones).
M.2.1.1.5	The student will utilize the relative values of the different number places to order numbers.
M.2.1.1.6	The student will compare numbers up to 1,000.
M.2.1.1.7	The student will find equivalent names for numbers.
M.2.1.1.8	The student will find combinations of 10.
M.2.1.1.9	The student will make tallies and give the total.

Standard 2: The student locates and interprets numbers on the number line.

Benchmark Code	Benchmark
M.2.1.2.1	The student will recognize the continuous interpretation of the number line here points correspond to distances from the origin (zero).
M.2.1.2.2	The student will use number line, pictures, and manipulatives to illustrate addition and subtraction as the adding and subtracting of lengths.
M.2.1.2.3	The student will recognize the symbol $\frac{1}{2}$ and the word half as signifying lengths and positions on the number lines that are midway between two whole numbers.

Standard 3: The student adds, subtracts, and uses numbers up to 1,000.	
Benchmark Code	Benchmark
M.2.1.3.1	The student will add or subtract up to three digit numbers with three or more addends or subtrahends with two or more addends or subtrahends.
M.2.1.3.2	The student will add and subtract using a number grid.
M.2.1.3.3	The student will pattern in addition and subtraction facts.
M.2.1.3.4	The student will use estimation to solve basic addition and subtraction up to 3-digit numbers.
M.2.1.3.5	The student will complete simple Frames-and-Arrows diagrams.
M.2.1.3.6	The student will use various strategies when solving addition and subtraction problems.
Standard 4: The student understands multiplication as repeated addition and division as the inverse of multiplication.	
Benchmark Code	Benchmark
M.2.1.4.1	The student will multiply small whole numbers by repeated addition.
M.2.1.4.2	The student will demonstrate knowledge of the multiplication tables up to 10 x 10.
M.2.1.4.3	The student will demonstrate understanding of the relationship of multiplication and division (fact families).
M.2.1.4.4	The student will solve multiplication and division problems involving repeated groups and arrays of small whole numbers.
M.2.1.4.5	The student will solve story problems using multiplication.
Standard 5: The student uses fractions to name parts of collections.	
Benchmark Code	Benchmark
M.2.1.5.1	The student will identify or create drawings that correspond to the correct fraction value and vice versa.
M.2.1.5.2	The student will identify equivalent names for fractions.
M.2.1.5.3	The student will compare fractions.
Standard 6: The student counts, adds, and subtracts money.	
Benchmark Code	Benchmark
M.2.1.6.1	The student will read, write, add, and subtract money up to 10 dollars.(E) and also up to 999 pesos (S)
M.2.1.6.2	The student will use dollar-and –cents notation.
M.2.1.6.3	The student will identify equivalencies and make coin/bill exchanges.
M.2.1.6.4	The student will show money amount with coins/bills.
M.2.1.6.5	The student will calculate the value of coin and dollar combinations.

Standard 7: The student makes sense of word problems with whole numbers and perseveres in solving them.	
Benchmark Code	Benchmark
M.2.1.7.1	The student will solve up to 3-digit addition and subtraction number stories and include a number model.
M.2.1.7.2	The student will solve problems that require more than one step and that use numbers with visual aids.
M.2.1.7.3	The student will solve simple multiplication and division word problems.
M.2.1.7.4	The student will solve word problems with fractions.
M.2.2.7.5	The student will solve word problems involving dollar bills, quarters, dimes, nickels, and pennies.
M.2.1.7.6	The student will explain own method to solve math problems.
Strand 2 Measurement	
Standard 1: The student adds, subtracts, compares, and estimates measurements.	
Benchmark Code	Benchmark
M.2.2.1.1	The student will select the appropriate tool or unit for measuring.
M.2.2.1.2	The student will measure to the nearest inch and centimeter and to the nearest $\frac{1}{2}$ inch and $\frac{1}{2}$ centimeter.
M.2.2.1.3	The student will measure and compare length of line segments and perimeters of two-dimensional shapes.
M.2.2.1.4	The student will identify the area of a shape.
M.2.2.1.5	The student will estimate and measure in U.S. standard and metric units.
M.2.2.1.6	The student will compare various units of measurements.
M.2.2.1.7	The student will recognize the difference between Fahrenheit and Celsius degrees on the thermometer.
M.2.2.1.8	The student will read and write about Fahrenheit and Celsius thermometers.
M.2.2.1.9	The student will read and make a calendar.
Standard 2: The student tells, estimates, and calculates with time.	
Benchmark Code	Benchmark
M.2.2.2.1	The student will tell the time on the half-hour.
M.2.2.2.2	The student will tell the time on the quarter-hour.
M.2.2.2.3	The student will use digital notation.
M.2.2.2.4	The student will tell, write, and use time measurements from analog (round) clock faces and from digital clocks and translate between the two.
M.2.2.2.5	The student will estimate the passage of time without clock measurement.

M.2.2.2.6	The student will use comparative phrases such as “in fifteen minutes,” “half an hour from now,” “ten minutes later.”
M.2.2.2.7	The student will identify equivalent measures of time (day, weeks, months, year, hours, and minutes).
Standard 3: The student makes sense of word problems with measurements and perseveres in solving them.	
Benchmark Code	Benchmark
M.2.2.3.1	The student will use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units.
Strand 3: Probability and Statistics	
Standard 1: The student represents measurements by means of graphs or line plots.	
Benchmark Code	Benchmark
M.2.3.1.1	The student will collect data or use given data and record them in systematic form such as graphs or charts.
M.2.3.1.2	The student will select appropriate scales for a graph and make them explicit in labels.
M.2.3.1.3	The student will create and solve problems that require interpretation of bar, picture graphs, tables, tally charts, and maps.
M.2.3.1.4	The student will order numbers and find the median and mode.
M.2.3.1.5	The student will correctly use probability language to describe events.
Strand 4: Geometry	
Standard 1: The student recognizes, classifies, and transforms geometric figures in two and three dimensions.	
Benchmark Code	Benchmark
M.2.4.1.1	The student will identify, describe, and compare common geometric shapes in two and three dimensions.
M.2.4.1.2	The student will draw line segments and identify parallel lines using a straight edge tool.
M.2.4.1.3	The student will describe common geometric attributes of familiar plane and solid objects including lines of symmetry.
M.2.4.1.4	The student will rotate, flip, and fold shapes to explore the effect of transformations.
M.2.4.1.5	The student will compare areas of geometric shapes.
Standard 2: The student understands and interprets rectangular arrays as a model of multiplication.	
Benchmark Code	Benchmark
M.2.4.2.1	The student will create square cells from segments of the discrete number line used as sides of a rectangle. (S)
M.2.4.2.2	The student will interpret rectangular arrays as instances of repeated addition.

Standard 3: The student makes sense of word problems with geometrical shapes and perseveres in solving them.	
Benchmark Code	Benchmark
M.2.4.3.1	The student will solve word stories using polygons.
Strand 5: Algebra	
Standard 1: The student creates, identifies, describes, and extends patterns.	
Benchmark Code	Benchmark
M.2.5.1.1	The student will fill in tables based on stated rules to reveal patterns or use identified patterns in a table to reveal the rule.
M.2.5.1.2	The student will record and study patterns in lists of numbers created by repeated additions or subtraction.
Standard 2: The student finds unknowns in simple arithmetic problems.	
Benchmark Code	Benchmark
M.2.5.2.1	The student will solve equations and problems involving addition, subtractions, (E&S) and multiplication (S) with the unknown in any position.
M.2.3.2.1	The student will create stories, make drawings, and use illustrations to represent problems that represent addition and subtraction with unknowns of various types.
M.2.5.2.2	The student will apply the rule that addition and multiplication are commutative and associative (not terms). (S).
Standard 3: The student understands basic properties of odd and even numbers.	
Benchmark Code	Benchmark
M.2.5.3.1	The student will explain why the sum of two even numbers is even and that the sum of two odd numbers is also even.
M.2.5.3.2	The student will answer similar questions about subtraction and multiplication of odd or even numbers. (S)

Social Studies

2nd Grade

Benchmark Code – Subject: Social Studies = SS

Strand 1: Historical Understandings

Strand 2: Geographic Understandings

Strand 3: Government/Civics Understandings

Strand 4: Economic Understandings

Code: Subject.Grade.Strand #.Standard #.Benchmark #

Example: M.2.1.4.3 –Social Studies, Second Grade, Strand 1, Standard 4, Benchmark 3

Strand 1: Historical Understandings

Standard 1: The student understands patterns of change and continuity, relationships between people, and events through time.

Benchmark Code	Benchmark
SS.2.1.1.1	The student will identify events as past or present.
SS.2.1.1.2	The student will identify the cultures of the past in terms of tools, clothing, homes, transportation, communication, and ways of making a living.
SS.2.1.1.3	The student will describe examples in which tools and techniques have changed the lives of people.
SS.2.1.1.4	The student will describe how areas of a community have changed over time.
SS.2.1.1.5	The student will identify the contributions made by certain historical figures.
SS.2.1.1.6	The student will differentiate between people, places, and events in the immediate and distant past.

Standard 2: The student develops an appreciation of the study of history to see history as a reference point for the future.

Benchmark Code	Benchmark
SS.2.1.2.1	The student will appreciate the value of studying history as a way of enriching our awareness of the past and our understanding of the future.
SS.2.1.2.2	The student will use and make a time line.

Strand 2: Geographic Understandings

Standard 1: The student defines and applies basic geographic concepts and terminology.

Benchmark Code	Benchmark
SS.2.2.1.1	The student will use simple relative directions, and location terms.

SS.2.2.1.2	The student will locate and identify the North and South Poles, the equator, continents, major oceans, and rivers on a map.
SS.2.2.1.3	The student will use maps and geographic graphs, tables, and diagrams to read and display geographic information.
SS.2.2.1.4	The student will distinguish among landforms and geographic features.
SS.2.2.1.5	The student will demonstrate a knowledge of the relationship among the following places—classroom, school, and family.
Strand 3: Government/Civics Understandings	
Standard 1: The student identifies and exhibits the skills of a good citizen based on understanding of justice and democratic principles.	
Benchmark Code	Benchmark
SS.2.3.1.1	The student will describe traits of a good citizen and demonstrate good citizenship within the classroom.
SS.2.3.1.2	The student will demonstrate the importance of voting and majority rule in making group decisions.
SS.2.3.1.3	The student will give examples of rights and responsibilities of the individual in relation to his or her social group.
SS.2.3.1.4	The student will recognize that individual people are part of a group and the appropriate and inappropriate social behavior.
Strand 4: Economic Understandings	
Standard 1: The student understands fundamental economic principles and ways in which economies are shaped by geographic and human factors.	
Benchmark Code	Benchmark
SS.2.4.1.1	The student will identify that people in a community serve many roles.
SS.2.4.1.2	The student will distinguish between rights and responsibilities.
SS.2.4.1.3	The student will understand why people make responsible or irresponsible choices.
SS.2.4.1.4	The student will describe how we depend upon jobs in communities.

Science Curriculum

2nd Grade

Benchmark Subject: Science = S

Strand 1 = Life Science

Strand 2 = Chemistry

Strand 3 = Earth Science

Strand 4 = Physics

Strand 5= Scientific Inquiry

Code: Subject.Grade.Strand#.Standard#.Benchmark

Example: S.2.2.1.1 – Science, Second Grade , Strand 2, Standard 1, Benchmark 1

Strand 1: Life Science

Standard 1: The student asks questions about a variety of organisms and everyday events that can be answered through observations. The student considers things and processes that people, plants, and animals need to stay alive. The student understands plant and animal interaction.

Benchmark Code	Benchmark
S.2.1.1.1	The student will observe and identify different external features of plants and animals and describe how these features help them adapt and survive in different environments.
S.2.1.1.2	The student will observe and describe how animals may use plants, or even other animals for shelter, nesting, and food.
S.2.1.1.3	The student will observe and explain that plants and animals both need to take in water, animals need to take in food, and plants need light.
S.2.1.1.4	The student will recognize and explain that living things are found almost everywhere in the world and that there are somewhat different kinds in different places.
S.2.1.1.5	The student will identify the different ecosystems that animals are classified in.
S.2.2.1.6	The student will determine if the changes humans cause to the earth are positive or negative.
S.2.1.1.7	The student will identify different features in animals and group them based on those features.
S.2.1.1.8	The student will recognize that people need water, food, air, waste removal, and a particular temperature for survival.

Strand 2: Chemistry

Standard 1: The student begins to observe how objects are similar and how they are different. The student begins to identify parts of an object and recognizes how these parts interact with the whole. The student looks for what changes and what does not change and makes comparisons.

Benchmark Code	Benchmark
S.2.2.1.1	The student will describe that things can change in different ways, such as in size, weight, color, age, and movement. The student will investigate that some small changes can be detected by taking measurements.

Strand 3: Earth Science

Standard 1: The student investigates, describes, and discusses their natural surroundings and their changes.

Benchmark Code	Benchmark
S.2.3.1.1	The student will investigate by observing and then describe that some events in nature have a repeating pattern, such as seasons, day and night, and migrations.

Standard 2: The student learns to respect and care for his/her environment.

Benchmark Code	Benchmark
S.2.3.2.1	The student will recognize and describe ways that some materials – such as recycled paper, cans, and plastic jugs – can be used over again.

Strand 4: Physics

Standard 1: The student understands that motion of an object is affected by external forces on it.

Benchmark Code	Benchmark
S.2.4.1.1	The student will observe and experiment with force in motion such as pulling, pushing, gravity, friction, etc.

Strand 5: Scientific Inquiry

Standard 1: The student actively explores how the world works. The student explores, observes, counts, collects, measures, compares, and asks questions. The student discusses observations and uses tools to seek answers and solve problems. The student shares findings.

Benchmark Code	Benchmark
S.2.5.1.1	The student will manipulate an object to gain additional information about it.
S.2.5.1.2	The student will use tools -- such as thermometers, magnifiers, rules, or balances – to gain more information about objects.
S.2.5.1.3	The student will make new observations when there is disagreement among initial observations using accountable talk.
S.2.5.1.4	The student will use tools to investigate, observe, measure, design, and build things.

Standard 2: The student begins to find answers to his/her questions about the world by using measurements, estimation, and observation as well as working with materials. The student communicates with others through numbers, words, and drawings.	
Benchmark Code	Benchmark
S.2.5.2.1	The student will draw pictures and write brief descriptions that correctly portray key features of an object.