

Lincoln Elementary School

Report Card Supplement: Grade 4 Standards and Expectations

Math (Report card categories are listed in bold)

Understands and applies the four operations (+-x÷), including basic algebra

- Understands the relationship the numbers represent in a multiplication equation such as 35 is 5 times as many as 7 and 7 times as many as 5.
- Multiplies or divides to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number.
- Solves multi-step word problems with whole numbers using the four operations, including problems with remainders using mental math and estimation including rounding to show reasonableness of answers.
- Finds all factor pairs for a whole number in the range 1-100.
- Recognizes that a whole number is a multiple of each of its factors.
- Determines whether a given whole number in the range 1-100 is a multiple of a given one-digit number.
- Determines whether a given whole number in the range 1-100 is prime or composite.
- Creates a number or shape pattern that follows a given rule. Identify features of the pattern that were not shown in the rule itself. For example, given the rule "Add 3" and the starting number 1, generate terms in the resulting sequence.

Understands and applies place value

- Recognizes that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right, e.g., $700 \div 70 = 10$.
- Reads and writes multi-digit whole numbers using base-ten numerals, number names, and expanded form.
- Compares two multi-digit numbers using $>$, $=$, and $<$ symbols to record the results of comparisons.
- Uses place value understanding to round multi-digit whole numbers to any place.
- Adds and subtracts multi-digit whole numbers.
- Multiplies multi-digit whole numbers by a one-digit whole number, and multiplies two two-digit numbers by using drawings to solve and explain the answer using equations, rectangular arrays, and/or area models.
- Finds whole-number quotients and remainders with up to four-digit dividends and one-digit divisors by using drawings to solve and explain the answer using equations, rectangular arrays, and/or area models.

Understands and applies fractions

- Recognizes and generates equivalent fractions by using visual fraction models.
- Compares two fractions with different numerators and different denominators by using a visual fraction model and record using symbols $>$, $=$, or $<$, to justify the conclusions.
- Understands that a unit fraction has a numerator of 1. Examples of unit fractions include $1/2$, $1/3$, $1/4$.
- Understands addition and subtraction of fractions as joining and separating parts referring to the same whole.
- Shows a fraction with the same denominator in more than one way, e.g., $3/8 = 1/8 + 1/8 + 1/8$; $3/8 = 1/8 + 2/8$; $2 \frac{1}{8} = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8$.
- Adds and subtracts mixed numbers with like denominators, e.g., $1 \frac{1}{5} + 1 \frac{2}{5} = 2 \frac{3}{5}$.
- Adds and subtracts fractions with the same whole with like denominators.
- Multiplies a fraction by a whole number.
- Understands a fraction a/b as a multiple of $1/b$. For example, use a visual fraction model to represent $5/4$ as the product $5 \times (1/4)$, recording the conclusion by the equation $5/4 = 5 \times (1/4)$.
- Understands a multiple of a/b as a multiple of $1/b$, and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express $3 \times (2/5)$ as $6 \times (1/5)$, recognizing this product as $6/5$. (In general, $n \times (a/b) = (n \times a)/b$.)
- Using visual models and equations, multiply a fraction by a whole number e.g., if each person at a party will eat $3/8$ of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?
- Expresses a fraction with denominator 10 as an equivalent fraction with denominator 100, e.g., express $3/10$ as $30/100$, and add $3/10 + 4/100 = 34/100$.
- Writes decimals for fractions with denominators 10 or 100, e.g., rewrite 0.62 as $62/100$.
- Compares two decimals to hundredths by using visual models and symbols $>$, $=$, or $<$.

Understands and applies measurement and data

- Knows measurement units and how to convert to another unit of measurement; including km, m, cm; kg, g; lb., oz.; l, ml; hr., min, sec, e.g., know that 1 ft. is 12 times as long as 1 in. Express the length of a 4 ft. snake as 48 in. Create a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36).

- Uses the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money.
- Uses the area and perimeter formulas for rectangles in real world and mathematical problems, e.g., finds the width of a rectangular room given the area of the flooring and the length, by viewing the area formula as a multiplication equation with an unknown factor.
- Makes a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$), e.g., from a line plot find and interpret the difference in length between the longest and shortest samples in an insect collection.
- Recognizes angles as geometric shapes including measurement of circles.
- Measures angles in whole-number degrees using a protractor. Sketches angles of specified measure.
- Solves addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems.

Understands and applies geometry

- Identifies two-dimensional figures using points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines.
- Recognizes and identifies right triangles.
- Identifies and draws lines of symmetry for a two-dimensional figure.

English and Language Arts (Report card categories are listed below in bold)

Reading (Report card categories are listed below in bold)

Decodes grade level words and reads fluently

- Knows and applies grade-level phonics and word analysis skills in decoding words
- Reads grade-level text accurately and fluently.

Reads and understands grade level literature

- Uses accurate details and examples from the text to explain or draw inferences about the text
- Determines a theme of a story, drama, or poem.
- Describes, in depth, a character, setting, or event in a story or drama, drawing on specific details in the text (e.g., a character's thoughts, words, or actions).
- Determines the meaning of words and phrases as they are used in a text.
- Compares and contrasts the differences between poems, drama, and prose, and refers to the structural elements of poems (e.g., verse, rhythm, meter) and drama (e.g., casts of characters, settings, descriptions, dialogue, stage directions) when writing or speaking about a text.
- Compares and contrasts the point of view from which different stories are narrated, including the difference between first- and third-person narrations.
- Makes connections between the text of a story or drama and a visual or oral presentation of the text
- Compares and contrasts the treatment of similar themes and topics (e.g., opposition of good and evil) and patterns of events (e.g., the quest) in stories, myths, and traditional literature from different cultures.
- By the end of the year, reads and comprehends literature proficiently, including stories, dramas, and poetry.

Reads and understands grade level informational text

- Uses accurate details and examples from the text to explain or draw inferences about the text.
- Identifies the main idea and key details when summarizing a text.
- Explains events, procedures, ideas, or concepts in a historical, scientific, or technical text.
- Determines the meaning of words used in grade-level texts.
- Describes the organization (e.g., chronology, comparison, cause/effect, problem /solution) of events, ideas, concepts, or information in a text or part of a text.
- Compares and contrasts primary and secondary accounts of the same event or topic.
- Interprets and explains information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages).
- Explains how an author uses reasons and evidence to support particular points in a text.
- Combines information from two texts on the same topic in order to write or speak about the subject knowledgeably.
- By the end of year, reads and comprehends informational texts proficiently, including history/social studies, science, and technical texts.

Language (Report card categories are listed below in bold)

Understands and uses grade level vocabulary and language

- Determines the meanings of words and phrases, including figurative language
- Determines the meaning of general academic and domain-specific words and phrases
- Uses context clues to determine the meaning of a word or phrase
- Uses common, grade-appropriate Greek and Latin affixes and roots
- Consults reference materials to find the pronunciation meaning of words

Understands and applies use of grammar, punctuation, conventions and spelling when writing

- Demonstrates command of the conventions of standard English grammar and usage when writing or speaking
- Demonstrates command of the conventions of standard English capitalization, punctuation, and spelling when writing

Writing (Report card categories are listed below in bold)

Writes for a variety of purposes on topics and/or in response to texts

- Writes opinion pieces on topics or texts, supporting a point of view with reasons and information.
- Writes informative/explanatory texts to examine a topic and convey ideas and information clearly.
- Writes narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.
- Produces clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.
- Develops and strengthens writing as needed by planning, revising, editing, rewriting, or trying a new approach.
- Uses technology to produce and publish writing, as well as to collaborate with others.
- Conducts short research projects that build knowledge about a topic.
- Recalls information from experiences or gathers information from print and digital resources; summarizes or paraphrases information in notes and finished work, provides a list of resources.
- Draws evidence from texts to support analysis, reflection, and research.
- Writes routinely over extended or shorter time frames for a range of tasks, purposes, and audiences.

Science (Report card categories are listed below in bold)

Understands grade level concepts and content

Social Studies (Report card categories are listed below in bold)

Understands grade level concepts and content

Music (Report card categories are listed below in bold)

Understands grade level concepts and content

Participates appropriately in classroom activities and discussions

Physical Education (Report card categories are listed below in bold)

Understands grade level concepts and content

Participates appropriately in classroom activities

Art (Report card categories are listed below in bold)

Understands grade level concepts and content

Participates appropriately in classroom activities and discussions

STUDENT WORK HABITS

Follows directions

Shows respect for self, others, and school

Follows classroom rules

Completes quality work in a timely manner (class work and homework)

Engages in classroom and small group discussions

Reports on topics or texts through speech and multimedia presentations