

Nebraska State Accountability Alternate Assessment of Mathematics (NeSA-AAM)
Performance Level Descriptors, Grade 3

Below the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a basic level of understanding of extended grade-level mathematics skills and concepts. Inaccuracies may interfere with conceptual understanding. The student may require frequent prompting in order to complete a task. Using only one strategy, the student may be able to:

- Identify whole numbers 0-9
- Represent up to 6 objects in equal-sized groups
- Identify a circle
- Identify one basic tool for measuring time
- Identify simple non-numeric patterns
- Match addition problems with pictures using whole numbers 0-5
- Identify a bar graph

Meets the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a consistent understanding of extended grade-level mathematics skills and concepts. The student may require minimal prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding may be present. Using a variety of strategies, the student can:

- Compare and order whole numbers 0-9
- Represent up to 10 objects in equal-sized groups
- Identify a square
- Identify two or more basic tools for measuring time
- Compare and order two objects by length
- Extend simple non-numeric (a/b) patterns
- Match subtraction problems with pictures using whole numbers 0-5
- Solve simple single-digit equations involving addition and subtraction with sums and differences 0-5
- Represent and interpret bar graphs (up to two bars)
- Identify a point on a number line

Exceeds the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student exceeds the expectation by demonstrating independent and consistent understanding of extended grade-level mathematics skills and concepts. The student typically requires minimal or no prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding are rarely present. Using a variety of strategies, the student can:

- Identify, compare, and order whole numbers 0-15
- Recognize one-half as part of a whole/set
- Represent up to 15 objects in equal-sized groups
- Identify a triangle
- Identify the time using one measuring tool
- Compare and order three objects by length
- Extend non-numeric (a/b/c) patterns
- Match addition and subtraction problems with pictures using whole numbers 0-9
- Solve simple single-digit equations involving addition and subtraction with sums and differences 0-9
- Represent and interpret bar graphs (three or more bars)
- Identify the distance between two points on a number line

Nebraska State Accountability Alternate Assessment of Mathematics (NeSA-AAM)

Performance Level Descriptors, Grade 4

Below the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a basic level of understanding of extended grade-level mathematics skills and concepts. Inaccuracies may interfere with conceptual understanding. The student may require frequent prompting in order to complete a task. Using only one strategy, the student may be able to:

- Identify which group is more or less (0-10) without symbols
- Recognize halves of a whole
- Represent up to 10 objects in equal groups
- Solve single-digit addition problems with 0-9
- Choose appropriate symbol (addition or subtraction) for a given illustration
- Identify a triangle and rectangle
- Identify a point on a number line (0-20)
- Identify time from at least one measuring tool
- Select the appropriate tool for measuring length and compare/order two or more objects by length
- Match a bar graph to given data

Meets the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a consistent understanding of extended grade-level mathematics skills and concepts. The student may require minimal prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding may be present. Using a variety of strategies, the student can:

- Identify and order whole numbers 0-20
- Recognize models of equivalent fractions $\frac{1}{2}$, whole
- Represent up to 20 objects in equal groups
- Choose appropriate number sentence (using illustrations) and solve addition and subtraction problems with sums and differences 0-9
- Identify the number of angles/corners in a triangle and rectangle
- Recognize lines that meet and do not meet (vocabulary of parallel and intersecting not required)
- Identify the distance between two points on a number line when all points are given (0-20)
- Tell time to the hour using an analog clock
- Measure the length of an object using non-standard units
- Compare data on bar graphs

Exceeds the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student exceeds the expectation by demonstrating independent and consistent understanding of extended grade-level mathematics skills and concepts. The student typically requires minimal or no prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding are rarely present. Using a variety of strategies, the student can:

- Compare whole numbers 0-20
- Recognize models of equivalent fractions $\frac{1}{2}$, whole regardless of orientation
- Represent and add numbers up to 20 in equal-sized groups to explain multiplication and division
- Solve double-digit plus single-digit addition problems without regrouping
- Choose appropriate number sentence for a word problem with no illustrations
- Identify the number of angles/corners/sides in a triangle and rectangle
- Identify the distance between two points on a number line when all points are not given (0-20)
- Tell time to the nearest half hour
- Select and apply the appropriate tool for measuring length, capacity/volume and weight
- Interpret data on bar graphs

Nebraska State Accountability Alternate Assessment of Mathematics (NeSA-AAM)
Performance Level Descriptors, Grade 5

Below the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a basic level of understanding of extended grade-level mathematics skills and concepts. Inaccuracies may interfere with conceptual understanding. The student may require frequent prompting in order to complete a task. Using only one strategy, the student may be able to:

- Compare and order whole numbers 0-20
- Identify equivalent representations of whole single-digit numbers
- Match models of equivalent fractions of ($\frac{1}{2}$, whole)
- Solve double-digit by single-digit addition problems without regrouping
- Multiply single digits (0's, 1's)
- Choose appropriate number sentence for a word problem with illustrations
- Round to the nearest ten, given a point on a number line
- Identify attributes of triangles and rectangles
- Identify customary tools for measuring length
- Compare data in bar graphs
- Identify the missing number in an addition equation using visuals

Meets the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a consistent understanding of extended grade-level mathematics skills and concepts. The student may require minimal prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding may be present. Using a variety of strategies, the student can:

- Compare and order whole numbers 0-30
- Identify equivalent representations of whole double-digit numbers
- Match models of equivalent fractions of ($\frac{1}{4}$, $\frac{1}{2}$, whole)
- Identify even and odd numbers to 10
- Round to the nearest tens
- Solve double-digit by double-digit addition and subtraction problems without regrouping
- Multiply single digits (0's, 1's, 2's, 5's)
- Select the appropriate operation (+, -) to solve a story problem
- Identify attributes of simple polygons and circles
- Identify customary units for measuring length
- Interpret bar graphs
- Solve a simple addition equation, given the value of a variable

Exceeds the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student exceeds the expectation by demonstrating independent and consistent understanding of extended grade-level mathematics skills and concepts. The student typically requires minimal or no prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding are rarely present. Using a variety of strategies, the student can:

- Compare and order whole numbers 0-50
- Match models of equivalent fractions of ($\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, whole)
- Identify even and odd numbers to 20
- Solve addition and subtraction problems (including story problems) with regrouping
- Multiply single digits (0-5) that result in whole number products
- Apply estimation of sums to the nearest tens
- Use tools to measure customary length
- Interpret circle graphs
- Solve a simple subtraction equation, given the value of a variable

Nebraska State Accountability Alternate Assessment of Mathematics (NeSA-AAM)
Performance Level Descriptors, Grade 6

Below the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a basic level of understanding of extended grade-level mathematics skills and concepts. Inaccuracies may interfere with conceptual understanding. The student may require frequent prompting in order to complete a task. Using only one strategy, the student may be able to:

- Add and subtract positive whole numbers
- Identify halves, thirds, and fourths from a whole using drawings or manipulatives
- Recognize coins and their values
- Recognizes a variable in an equation
- Round to the nearest 10
- Identify parenthesis and commutative property
- Identify perimeter and area of a simple polygon on a 4 x 4 grid
- Recognize bar and circle graphs
- Compare and order whole numbers up to 30

Meets the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a consistent understanding of extended grade-level mathematics skills and concepts. The student may require minimal prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding may be present. Using a variety of strategies, the student can:

- Multiply positive single-digit whole numbers
- Subtract halves, thirds, and fourths from a whole using drawings or manipulatives
- Determine two ways to combine coins up to \$1.00
- Recognize decimal representations of money
- Select the appropriate operation (+, -, x, /) when problem solving
- Apply estimation to sums and differences to the nearest 10
- Identify the purpose of parenthesis in the order of operations
- Interpret data using a variety of visual and numerical representations (i.e., circle graphs, mode, probability)
- Determine the perimeter of a simple polygon and area of a square
- Use a symbol to represent a numeric value in a simple equation
- Compare and order whole numbers up to 40 and identify factorization up to 20

Exceeds the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student exceeds the expectation by demonstrating independent and consistent understanding of extended grade-level mathematics skills and concepts. The student typically requires minimal or no prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding are rarely present. Using a variety of strategies, the student can:

- Divide positive whole numbers
- Add and subtract halves, thirds, and fourths with like denominators using drawings or manipulatives
- Add and subtract money amounts
- Solve simple equations with parenthesis or with commutative properties
- Select the appropriate operation (+, -, x) and solve a story problem
- Apply estimation to products to the nearest 10
- Interpret data using a variety of graphs
- Find the median for a set of ordered data
- Determine the area of a rectangle
- Compare and order simple percents

Nebraska State Accountability Alternate Assessment of Mathematics (NeSA-AAM)
Performance Level Descriptors, Grade 7

Below the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a basic level of understanding of extended grade-level mathematics skills and concepts. Inaccuracies may interfere with conceptual understanding. The student may require frequent prompting in order to complete a task. Using only one strategy, the student may be able to:

- Compare and order whole numbers up to 40
- Divide a group of manipulatives by a single number
- Select the appropriate operation to solve an addition story problem
- Match basic shapes
- Compare quantities using more than, less than, or equal to
- Use manipulatives and/or tally marks to represent data
- Determine the probabilities of an impossible event

Meets the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a consistent understanding of extended grade-level mathematics skills and concepts. The student may require minimal prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding may be present. Using a variety of strategies, the student can:

- Compare and order whole numbers up to 50 and simple percents
- Apply estimation to products to the nearest 10
- Determine the area of a rectangle
- Evaluate with respect to order of operations in addition, subtraction, and multiplication expressions with parentheses
- Divide a positive two-digit number by a single digit number
- Select and apply appropriate operation to solve an addition or subtraction story problem
- Find the distance between two horizontal or two vertical points
- Identify congruent shapes
- Given the value of a variable, evaluate a simple addition or subtraction expression
- Identify a correct simple inequality
- Identify and interpret multiple types of visual representations or data sets
- Determine the probability of a given situation (always, sometimes, never)

Exceeds the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student exceeds the expectation by demonstrating independent and consistent understanding of extended grade-level mathematics skills and concepts. The student typically requires minimal or no prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding are rarely present. Using a variety of strategies, the student can:

- Select and apply the appropriate operation to solve a multiplication story problem
- Match equivalent fractions and percents
- Plot the location of an ordered pair on a 4 x 4 grid
- Solve one-step addition, subtraction, and multiplication equations
- Find the median for an uneven set of numbers
- Compare theoretical probabilities

Nebraska State Accountability Alternate Assessment of Mathematics (NeSA-AAM)

Performance Level Descriptors, Grade 8

Below the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a basic level of understanding of extended grade-level mathematics skills and concepts. Inaccuracies may interfere with conceptual understanding. The student may require frequent prompting in order to complete a task. Using only one strategy, the student may be able to:

- Compare and order integers 0 to 50
- Compute without regrouping and problem solve using addition
- Apply estimation to nearest 10 on situation involving addition
- Find lengths of horizontal and vertical sides of geometric shapes on a coordinate grid in Q1
- Match congruent shapes
- Identify relationships of number sentences
- Solve one-step equations involving addition with whole numbers
- Recognize accurate representations of data in a circle graph, 2 category circle
- Find the median of an uneven number set of data set of 3 or 5

Meets the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a consistent understanding of extended grade-level mathematics skills and concepts. The student may require minimal prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding may be present. Using a variety of strategies, the student can:

- Compare and order integers -50 to 50
- Compute decimals without regrouping
- Select the appropriate operation or method when problem solving
- Use geometric properties to identify parallel lines, right angles, congruent triangles, similar shapes
- Find lengths of horizontal and vertical sides of geometric shapes on a coordinate grid
- Identify relationships using simple algebraic expressions, number sentences, and a squared number
- Solve whole number one step equations, including addition, subtraction, and multiplication
- Use sets of data to compare characteristics, find median, and recognize accurate representations of data in a circle graph

Exceeds the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student exceeds the expectation by demonstrating independent and consistent understanding of extended grade-level mathematics skills and concepts. The student typically requires minimal or no prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding are rarely present. Using a variety of strategies, the student can:

- Compare and order integers
- Compute decimals with regrouping
- Applying estimation to nearest 10 in story problems including addition and subtraction
- Identify and compare characteristics, properties and relationships of geometric shapes
- Apply appropriate procedures to determine measurements of missing lengths in geometric shapes
- Create and use models of quantitative relationships to solve one step equations
- Compare characteristics, recognize accurate representations and find units of central tendency for a set of data
- Determine complementary events and the probability of independent events

Nebraska State Accountability Alternate Assessment of Mathematics (NeSA-AAM)

Performance Level Descriptors, Grade 11

Below the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a basic level of understanding of extended grade-level mathematics skills and concepts. Inaccuracies may interfere with conceptual understanding. The student may require frequent prompting in order to complete a task. Using only one strategy, the student may be able to:

- Add and subtract two-digit numbers without regrouping
- Apply estimation to the nearest 10 on story problems involving addition and subtraction
- Apply the geometric property ($l \times w$) to find the area of a rectangle
- Convert equivalent amounts of money under \$5
- Interpret values of a linear function in a table for positive, independent integers less than 5
- Identify numbers that make one variable addition or subtraction equations true
- Differentiate between a dependent and independent event involving 2 different objects
- Use the appropriate Counting Principle to determine the combinations for an event, 2 choices under 5 each

Meets the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student demonstrates a consistent understanding of extended grade-level mathematics skills and concepts. The student may require minimal prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding may be present. Using a variety of strategies, the student can:

- Demonstrate number sense by adding and subtracting two-digit numbers, recognizing expanded powers, and applying estimation to nearest 10 in story problems including addition, subtraction, and multiplication
- Determine the coordinates of a point and identify properties of equilateral and right triangles using geometry concepts and coordinate geometry to find area of rectangle
- Convert equivalent rates using money
- Identify linear and non-linear relationships from a graph
- Interpret values of a function in a table and analyze the rate of change in a table or graph
- Identify numbers that make one variable addition or subtraction inequalities true
- Differentiate dependent/independent and mutually exclusive events, and determine the combinations of events using the Counting Principle
- Determine the range of a data set.

Exceeds the Standards

Using their primary mode of communication, appropriate supports, and accommodations, the student exceeds the expectation by demonstrating independent and consistent understanding of extended grade-level mathematics skills and concepts. The student typically requires minimal or no prompting in order to complete a task. Inaccuracies that do not interfere with conceptual understanding are rarely present. Using a variety of strategies, the student can:

- Compute with regrouping and problem solve using appropriate strategies
- Identify and apply properties of geometric shapes
- Determine the coordinates of a point on a coordinate plane
- Interpret and analyze relationships using tables and graphs
- Determine the rate of change in a table or graph
- Solve the quantitative relationship of one variable inequalities