

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

## Grade 5

### NUMBER SENSE

Gr5 Number System	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
<b>MA 5.1.1 Students will represent and show relationships among positive rational numbers.</b>						
<b>MA 5.1.1.a</b> <u>General</u> Demonstrate multiple equivalent representations for whole numbers and decimal numbers through the thousandths place <u>Extended</u> <i>Identify equivalent representations of whole numbers from 0-50</i>	3	0-1	0-1	0-2	0	1-3
<b>MA 5.1.1.b</b> <u>General</u> Compare and order whole numbers, fractions, and decimals through the thousandths place <u>Extended</u> <i>Compare and order whole numbers 0-30</i>	4	0	0-2	0-2	0-2	1-4
<b>MA 5.1.1.c</b> <u>General</u> Identify and name fractions in their simplest form and find common denominators for fractions <u>Extended</u> <i>Use models to represent halves, fourths, and thirds as parts of a whole and parts of a set</i>	3	0-1	1-2	0-2	0	1-3
<b>MA 5.1.1.d</b> <u>General</u> Recognize and generate equivalent forms of commonly used fractions, decimals, and percents <u>Extended</u> <i>Use models to identify equivalent fractions 1/4, 1/2, and whole</i>	3	0-1	0-2	0-2	0	1-3
<b>MA 5.1.1.e</b> <u>General</u> Classify a number as prime or composite <u>Extended</u> <i>Classify a number as even or odd</i>	3	0-1	0-2	0-2	0	1-3
<b>MA 5.1.1.f</b> <u>General</u> Identify factors and multiples of any whole number <u>Extended</u> <i>Identify groups of 2, 5s, and 10s</i>	3	0-1	0-2	0-2	0	1-3
Gr5 Computation	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
<b>MA 5.1.3 Students will compute fluently and accurately using appropriate strategies and tools.</b>						
<b>MA 5.1.3.a</b> <u>General</u> Add and subtract positive rational numbers <u>Extended</u> <i>Add and subtract 2-digit by 2-digit whole numbers without regrouping</i>	4	0	0	0-3	0-2	1-3
<b>MA 5.1.3.b</b> <u>General</u> Select, apply, and explain the appropriate method of computation when problem solving <u>Extended</u> <i>Select the appropriate method of computation (addition, subtraction, and multiplication) when problem solving</i>	4	0	0	0-2	0-2	1-3

<b>MA 5.1.3.c</b> General Multiply decimals Extended <i>Multiply single-digit numbers (0 to 5)</i>	4	0	0	0-3	0-2	1-3
<b>MA 5.1.3.d</b> General Divide a decimal by a whole number Extended <i>Divide single digit numbers by single digit numbers resulting in a quotient that is a whole number</i>	4	0	0	0-3	0-2	1-3
<b>Gr5 Estimation</b>	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
<b>MA 5.1.4 Students will estimate and check reasonableness of answers using appropriate strategies and tools.</b>						
<b>MA 5.1.4.a</b> General Estimate the sums and differences of positive rational numbers to check the reasonableness of such results Extended <i>Apply estimation to the nearest 10 on addition results</i>	4	0	0	0-3	0-2	1-3
<b>GEOMETRIC/MEASUREMENT CONCEPTS</b>						
<b>Gr5 Characteristics</b>	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
<b>MA 5.2.1 Students will describe relationships among two-dimensional shapes and three-dimensional objects.</b>						
<b>MA 5.2.1.a</b> General Identify the number of edges, faces, and vertices of triangular and rectangular prisms Extended <i>Identify the number of sides of a given polygon</i>	3	0	0-2	0-3	0	1-3
<b>MA 5.2.1.d</b> General Identify degrees on a circle Extended <i>Identify the radius and diameter of a circle</i>	3	0-1	0-3	0-2	0	1-3
<b>Gr5 Coordinate Geometry</b>	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
<b>MA 5.2.2 Students will identify locations using coordinate geometry.</b>						
<b>MA 5.2.2.a</b> General Plot the location of an ordered pair in the first quadrant Extended <i>Determine the location of a number on a number line</i>	3	0	0-1	0-3	0	1-3
<b>Gr5 Measurement</b>	Highest DOK Stage Tested	DOK 1 Stage 1	DOK 1 Stage 2	DOK 1 Stage 3	DOK 2 Stage 4	Stage
<b>MA 5.2.5 Students will apply appropriate procedures, tools and formulas to determine measurements using customary and metric units.</b>						

<b>MA 5.2.5.b</b> General Identify correct unit (customary or metric) to the measurement situation Extended <i>Identify the customary units for measuring length</i>	3	0	0-1	0-3	0	1-3
<b>MA 5.2.5.f</b> General Determine the area of rectangles and squares Extended <i>Identify the perimeter of an object</i>	3	0	0-1	0-3	0	1-3

### ALGEBRAIC CONCEPTS

Gr5 Modeling in Context	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
<b>MA 5.3.2 Students will create, use, and compare models representing mathematical situations.</b>						
<b>MA 5.3.2.a</b> General Model situations that involve the addition, subtraction, and multiplication of positive rational numbers using words, graphs, and tables Extended <i>Model situations that involve addition and subtraction of numbers up to 50</i>	4	0	0	0-2	0-2	1-3
<b>Gr5 Procedures</b>	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
<b>MA 5.3.3 Students will apply properties of simple positive rational numbers to solve one-step equations.</b>						
<b>MA 5.3.3.b</b> General Use symbolic representations of the associative property Extended <i>Identify the associative property of addition using pictures and models</i>	4	0	0-1	0-3	0-2	1-3
<b>MA 5.3.3.c</b> General Evaluate numerical expressions by using parentheses with respect to order of operations Extended <i>Demonstrate understanding of order of operations involving one-digit addition with parentheses</i>	4	0	0	0-2	0-3	1-3
<b>MA 5.3.3.d</b> General Evaluate simple algebraic expressions involving addition and subtraction Extended <i>Evaluate simple algebraic expressions involving addition</i>	4	0	0	0-2	0-2	1-3
<b>MA 5.3.3.e</b> General Solve one-step addition and subtraction equations involving common positive rational numbers Extended <i>Solve simple one-step equations involving addition</i>	4	0	0	0-1	1-3	1-3

### DATA ANALYSIS/PROBABILITY CONCEPTS

Gr5 Display and Analysis	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
<b>MA 5.4.1 Students will organize, display, compare, and interpret data.</b>						
<b>MA 5.4.1.a</b> General Represent data using line graphs Extended <i>Identify data on a line graph</i>	3	0-1	0-2	0-3	0	1-3

<p><b>MA 5.4.1.b</b>  <u>General</u> Represent the same set of data in different formats  <u>Extended</u> <b>Identify the same data in different formats</b></p>	4	0	0	0	0-3	1-3
<p><b>MA 5.4.1.c</b>  <u>General</u> Draw conclusions based on a set of data  <u>Extended</u> <b>Interpret data on a line graph</b></p>	4	0	0	0-2	0-3	1-3
<p><b>GrS Probability</b></p>	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	<b>Item Totals</b>
<p><b>MA 5.4.3 Students will organize, display, compare, and interpret data.</b></p>						
<p><b>MA5.4.3.b</b>  <u>General</u> Generate a list of possible outcomes for a simple event  <u>Extended</u> <b>Identify a possible outcome</b></p>	4	0	0-2	0-2	0-1	1-3