

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

Grade 7

NUMBER SENSE

Gr7 Number System	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.1.1 Students will represent and show relationships among rational numbers.						
MA 7.1.1.a <u>General</u> Show equivalence among fractions, decimals, and percents <u>Extended</u> <i>Use models to identify equivalents between fractions and percents (1 and 100%, 1/2 and 50%, 1/4 and 25%)</i>	4	0-1	0-3	0-2	0-1	1-3
MA 7.1.1.b <u>General</u> Compare and order rational numbers (fractions, decimals, percents) <u>Extended</u> <i>Compare and order numbers up to 50</i>	4	0	0-2	0-2	0-2	1-4
Gr7 Computation	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.1.3 Students will compute fluently and accurately using appropriate strategies and tools.						
MA 7.1.3.a <u>General</u> Compute accurately with integers <u>Extended</u> <i>Divide a positive two digit number by a single digit number</i>	4	0	0-1	0-3	0-2	1-3
MA 7.1.3.b <u>General</u> Select, apply, and explain the method of computation when problem solving using integers and positive rational numbers <u>Extended</u> <i>Select and apply the appropriate method of computation (addition, subtraction, and multiplication) when problem solving</i>	4	0	0	0-2	0-2	1-3
MA 7.1.3.c <u>General</u> Solve problems involving percent of numbers <u>Extended</u> <i>Compare given percents (greater than, less than, equal to)</i>	4	0	0-1	0-3	0-2	1-3
Gr7 Estimation	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.1.4 Students will estimate and check reasonableness of answers using appropriate strategies and tools.						
MA 7.1.4.a <u>General</u> Use estimation methods to check the reasonableness of solutions for problems involving integers and positive rational numbers <u>Extended</u> <i>Apply estimation to the nearest 10 on addition and subtraction results</i>	4	0	0	0-3	0-2	1-3

GEOMETRIC/MEASUREMENT CONCEPTS

Gr7 Coordinate Geometry	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.2.2 Students will identify locations using coordinate geometry.						
MA 7.2.2.a General Plot the location of an ordered pair in the coordinate plane Extended <i>Plot the location of an ordered pair on a 4 x 4 grid</i>	3	0	0-1	0-3	0	1-3
MA 7.2.2.c General Find the distance between points along horizontal and vertical lines of a coordinate plane Extended <i>Identify the distance between two given points along horizontal and vertical lines of a grid</i>	3	0	0-1	0-3	0	1-3
Gr7 Transformations	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.2.3 Students will use transformations and symmetry to analyze geometric shapes.						
MA 7.2.3.b General Perform and describe positions and orientation of shapes under a single transformation on an coordinate plane Extended <i>Identify congruent shapes</i>	3	0	0-2	0-2	0	1-3
Gr7 Measurement	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.2.5 Students will apply appropriate procedures, tools, and formulas to determine measurements.						
MA 7.2.5.b General Determine the area of trapezoids and circles, and the circumference of circles Extended <i>Determine the area of a rectangle (not a square)</i>	4	0	0	0-3	0-2	1-3
ALGEBRAIC CONCEPTS						
Gr7 Relationships	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.3.1 Students will represent and analyze relationships using algebraic symbols.						
MA 7.3.1.a General Describe and create algebraic expressions from words, tables, and graphs Extended <i>Match a simple algebraic expression involving addition and subtraction to a given table, chart, or illustration</i>	4	0	0-1	0-2	0-3	1-3
MA 7.3.1.b General Use a variable to describe a situation with an inequality Extended <i>Identify a correct inequality</i>	4	0	0-1	0-2	0-3	1-3
Gr7 Modeling in Context	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals

MA 7.3.2 Students will create, use, and interpret models of quantitative relationships.						
MA 7.3.2.a General Model contextualized problems using various representations <u>Extended</u> <i>Recognize addition number sentences using various representations</i>	3	0-1	0-1	0-3	0	1-3
Gr7 Procedures	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.3.3 Students will apply properties to solve equations and inequalities.						
MA 7.3.3.c General Given the value of the variable(s), evaluate algebraic expressions with respect to order of operations Extended <i>Evaluate variable expressions with respect to order of operations in addition, subtraction, and multiplication with parentheses</i>	4	0	0	0-2	0-2	1-3
MA 7.3.3.d General Solve two-step equations involving integers and positive numbers Extended <i>Solve one-step equations involving addition or subtraction</i>	4	0	0-1	0-3	0-1	1-3
DATA ANALYSIS/PROBABILITY CONCEPTS						
Gr7 Display and Analysis	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.4.1 Students will formulate questions that can be addressed with data, and then organize, display, and analyze the relevant data to answer their questions.						
MA 7.4.1.a General Analyze data sets and interest their graphical representations Extended <i>Identify and interpret a data set</i>	4	0	0-2	0-3	0-2	1-3
MA 7.4.1.b General Find and interpret mean, median, mode, and range for a set of data Extended <i>Find the median for a set of data</i>	4	0	0-1	0-2	0-2	1-3
Gr7 Probability	Highest DOK Stage Tested	Stage 1	Stage 2	Stage 3	Stage 4	Item Totals
MA 7.4.3 Students will apply and interpret basic concepts of probability.						
MA 7.4.3.a General Find the probability of independent compound events Extended <i>Determine the probability of a given event (always, sometimes, never)</i>	3	0	0-1	0-3	0	1-3
MA 7.4.3.b General Compare and contracts theoretical and experimental probabilities Extended <i>Compare theoretical probabilities</i>	4	0	0-1	0-2	0-2	1-3