

Nebraska State Mathematics Test Table of Specifications

Grade 3

NUMBER SENSE

Gr3 Number System	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.1.1 Students will represent and show relationships among positive rational numbers within the base-ten number system.					
<i>MA 3.1.1.a Read and write numbers to one-hundred thousand.</i>	Assessed at the local level				
<i>MA 3.1.1.b Count by multiples of 5 to 200</i>	Assessed at the local level				
<i>MA 3.1.1.c Count by multiples of 10 to 400</i>	Assessed at the local level				
<i>MA 3.1.1.d Count by multiples of 100 to 1000</i>	Assessed at the local level				
MA 3.1.1.e Demonstrate multiple equivalent representations for numbers up to 10,000	1	3-5	0	0	3-5
<i>MA 3.1.1.f Demonstrate multiple equivalent representations for decimals numbers through the tenths place.</i>	Assessed at the local level				
MA 3.1.1.g Compare and order whole numbers through the thousands	1	4-6	0	0	4-6
MA 3.1.1.h Find parts of whole and parts of a set for $\frac{1}{2}$, $\frac{1}{3}$, or $\frac{1}{4}$	2	0-1	3-5	0	3-6
MA 3.1.1.i Round a given number to tens, hundreds, or thousands	1	1-3	0	0	1-3
Gr3 Operations	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.1.2 Students demonstrate the meaning of multiplication with whole numbers.					
MA 3.1.2.a Represent multiplication as repeated addition using objects, drawings, words, and symbols	2	0-1	1-2	0	1-3
<i>MA 3.1.2.b Use objects, drawings, words, and symbols to explain the relationship between multiplication and division</i>	Assessed at the local level				
<i>MA.3.1.2.c Use drawings, words and symbols to explain the meaning of the factors and product in a multiplication sentence</i>	Assessed at the local level				
MA.3.1.2.d Use drawings, words, and symbols to explain the meaning of multiplication using an array	2	0-1	1-2	0	1-3
Gr3 Computation	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.1.3 Students will compute fluently and accurately using appropriate strategies and tools.					

<i>MA 3.1.3.a Compute whole number multiplication facts 0-10 fluently</i>	Assessed at the local level				
<i>MA 3.1.3.b Add and subtract through four-digit whole numbers with regrouping</i>	Assessed at the local level				
<i>MA 3.1.3.c Select and apply the appropriate methods of computation when problem solving with four-digit whole numbers through the thousands</i>	Assessed at the local level				
Gr3 Estimation	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.1.4 Students will estimate and check reasonableness of answers using appropriate strategies and tools.					
<i>MA 3.1.4.a Estimate the two-digit product of whole number multiplication and check the reasonableness</i>	Assessed at the local level				
GEOMETRIC/MEASUREMENT CONCEPTS					
Gr3 Characteristics	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.2.1 Students will identify characteristics and describe properties of two-dimensional shapes and three-dimensional objects.					
<i>MA 3.2.1.a Identify the number of sides, angles, and vertices of two-dimensional shapes</i>	1	2-4	0	0	2-4
<i>MA 3.2.1.b Identify congruent two-dimensional figures given multiple two-dimensional shapes</i>	1	1-2	0	0	1-2
<i>MA 3.2.1.c Identify lines, line segments, rays, and angles</i>	Assessed at the local level				
<i>MA 3.2.1.d Describe attributes of solid shapes</i>	Assessed at the local level				
Gr3 Coordinate Geometry	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.2.2 Students will identify distances on a number line.					
<i>MA 3.2.2.a Draw a number line and plot points</i>	Assessed at the local level				
<i>MA 3.2.2.b Determine the distance between two whole number points on a number line</i>	1	1-3	0	0	1-3
Gr3 Transformations	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.2.3 Students will draw all lines of symmetry.					
<i>MA 3.2.3.a Draw all possible lines of symmetry in two-dimensional shapes</i>	Assessed at the local level				
Gr3 Spatial Modeling	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.2.4 Students will create two-dimensional shapes and three-dimensional objects.					
<i>MA 3.2.4.a Sketch and label lines, rays, line segments, and angles</i>	Assessed at the local level				

<i>MA 3.2.4.b Build three-dimensional objects</i>	Assessed at the local level				
Gr3 Measurement	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.2.5 Students will apply appropriate procedures and tools to determine measurements using customary and metric units.					
<i>3.2.5.a Select and use appropriate tools to measure perimeter of simple two-dimensional shapes</i>	Assessed at the local level				
<i>MA 3.2.5.b Count mixed coins and bills greater than \$1.00</i>	Assessed at the local level				
<i>MA 3.2.5.c Identify time of day</i>	Assessed at the local level				
<i>MA 3.2.5.d State multiple ways for the same time using 15 minute intervals</i>	Assessed at the local level				
<i>MA 3.2.5.e Identify the appropriate customary unit for measuring length, weight, and capacity/volume</i>	1	2-4	0	0	2-4
<i>MA 3.2.5.f Measure length to the nearest 1/2 inch and centimeter</i>	Assessed at the local level				
<i>MA 3.2.5.g Compare and order objects according to length using centimeters and meters</i>	1	1-3	0	0	1-3
ALGEBRAIC CONCEPTS					
Gr3 Relationships	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.3.1 Students will represent relationships.					
<i>MA 3.3.1.a Identify, describe, and extend numeric and non-numeric patterns</i>	1	1-3	0	0	1-3
<i>MA 3.3.1.b Identify patterns using words, tables, and graphs</i>	Assessed at the local level				
Gr3 Modeling in Context	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.3.2 Students will create and use models to represent mathematical situations.					
<i>MA 3.3.2.a Model situations that involve the addition and subtraction of whole numbers using objects, number lines, and symbols</i>	3	0	1-2	1-2	2-4
<i>MA 3.3.2.b Describe and model quantitative change involving subtraction</i>	Assessed at the local level				
Gr3 Procedures	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.3.3 Students will identify and apply properties of whole numbers to solve equations involving addition and subtraction.					
<i>MA 3.3.3.a Use symbolic representation of the identity property of addition</i>	Assessed at the local level				
<i>MA 3.3.3.b Solve simple one-step whole number equations involving addition and subtraction</i>	1	2-4	0	0	2-4

MA 3.3.3.c Explain the procedure(s) used in solving simple one-step whole number equations involving addition and subtraction	Assessed at the local level				
DATA ANALYSIS/PROBABILITY CONCEPTS					
Gr3 Display and Analysis	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.4.1 Students will organize, display, compare, and interpret data.					
MA 3.4.1.a Represent data using horizontal and vertical bar graphs	2	0-1	1-2	0	1-3
MA 3.4.1.b Use comparative language to describe the data	Assessed at the local level				
MA 3.4.1.c Interpret data using horizontal and vertical bar graphs	2	0-1	1-2	0	1-3
Gr3 Predictions and Inferences	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.4.2 Mastery not expected at this level					
Gr3 Probability	DOK Level	DOK 1	DOK 2	DOK 3	Item Total
MA 3.4.3 Students will find and describe experimental probability.					
MA 3.4.3.a Perform simple experiments and describe outcomes as possible, impossible, or certain	Assessed at the local level				