Nebraska State Assessment - Grade 5			
	Math TOS Crosswalk		
MA 5.1	NUMBER: Students will communicate number sense concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.		
MA 5.1.1	Numeric Relationships: Students will demonstrate, represent, and show relationships among whole numbers, fractions, and decimals within the base-ten number system.	Legacy Standard	
MA 5.1.1.a	Determine multiple equivalent representations for whole numbers and decimals through the thousandths place using standard form, word form, and expanded notation.	MA 5.1.1.a	
	Compare whole numbers, fractions, mixed numbers, and decimals through the thousandths place and represent comparisons using symbols <,>, or =.	MA 5.1.1.b	
MA 5.1.1.c	Round whole numbers and decimals to any given place.	MA 5.1.1.g	
MA 5.1.1.d	Recognize and generate equivalent forms of commonly used fractions, decimals, and percents (e.g., halves, thirds, fourths, fifths, and tenths).	MA 5.1.1.d	
MA 5.1.1.e	Write powers of 10 with exponents.	MA 6.1.1.d	
MA 5.1.2	Operations: Students will demonstrate the meaning of operations and compute accurately with whole numbers, fractions, and decimals.		
MA 5.1.2.a	Multiply multi-digit whole numbers using the standard algorithm.	MA 4.1.3.c	
MA 5.1.2.b	Divide four-digit whole numbers by a two-digit divisor, with and without remainders using the standard algorithm.	MA 4.1.3.d	
MA 5.1.2.c	Multiply a whole number by a fraction or a fraction by a fraction using models and visual representations.	MA 6.1.3.a	
MA 5.1.2.d	Divide a unit fraction by a whole number and a whole number by a unit fraction.	MA 5.1.3.d	
MA 5.1.2.e	Explain division of a whole number by a fraction using models and visual representations.	NONE	
MA 5.1.2.f	Interpret a fraction as division of the numerator by the denominator.	NONE	
MA 5.1.2.g	Add, subtract, multiply, and divide decimals to the hundredths using concrete models or drawings and strategies based on place value, properties of operations (i.e. Commutative, Associative, Distributive, Identity, Zero), and/or relationships between operations.	MA 6.1.2.b	
MA 5.1.2.h	Add and subtract fractions and mixed numbers with unlike denominators.	MA 6.1.2.a	
MA 5.1.2.i	Determine the reasonableness of computations involving whole numbers, fractions, and decimals.	MA 5.1.4.a	
MA 5.1.2.j	Multiply and divide by powers of 10.	MA 4.1.3.e	

MA 5.2	ALGEBRA: Students will communicate algebraic concepts using	
	multiple representations to reason, solve problems, and make	
	connections within mathematics and across disciplines.	
MA 5.2.1	Algebraic Relationships: Students will demonstrate, represent, and	
	show relationships with expressions and equations.	
MA 5.2.1.a	Form ordered pairs from a rule such as y=2x, and graph the ordered	MA 5.3.1.b
	pairs on a coordinate plane.	
MA 5.2.2	Algebraic Processes: Students will apply the operational properties	
	when evaluating expressions and solving equations.	
		MA 6.3.3.b
MA 5.2.2.a	Interpret and evaluate numerical or algebraic expressions using order	1417 0.5.5.6
	of operations (excluding exponents).	MA 7.3.3.c
	Applications: Students will solve real-world problems involving	
MA 5.2.3	equations with fractions and mixed numbers.	
MA 5.2.3.a	Solve real-world problems involving addition and subtraction of	MA 5.3.2.a
	fractions and mixed numbers with like and unlike denominators.	
	GEOMETRY: Students will communicate geometric concepts and	
MA 5.3	measurement concepts using multiple representations to reason,	
IVIA 5.5	solve problems, and make connections within mathematics and across	
	disciplines.	
MA 5.3.1	Characteristics: Students will identify and describe geometric	
	characteristics and create two- and three-dimensional shapes.	
MA 5.3.1.a	Identify three-dimensional figures including cubes, cones, pyramids,	NONE
	prisms, spheres, and cylinders.	
MA 5.3.1.b	Identify faces, edges, and vertices of rectangular prisms.	MA 5.2.1.a
MA 5.3.1.c	Justify the classification of two-dimensional figures based on their	MA 5.2.1.c
	properties.	
MA 5.3.2	Coordinate Geometry: Students will determine location, orientation, and relationships on the coordinate plane.	
MA 5.3.2.a	Identify the origin, x axis, and y axis of the coordinate plane.	NONE
IVIA 3.3.2.a	Graph and name points in the first quadrant of the coordinate plane.	NONL
MA 5.3.2.b	using ordered pairs of whole numbers.	MA 5.2.2.a
	Measurement: Students will perform and compare measurements and	
MA 5.3.3	apply formulas.	
	Recognize that solid figures have volume that is measured in cubic	
MA 5.3.3.a	units.	NONE
MA 5.3.3.b	Use concrete models to measure the volume of rectangular prisms in	NONE
	cubic units by counting cubic units.	NONE
	Generate conversions within the customary and metric systems of	
MA 5.3.3.c	measurement.	MA 6.2.5.c

MA 5.4	DATA: Students will communicate data analysis/probability concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	
MA 5.4.1	Representations: Students will create displays that represent data.	
MA 5.4.2	Analysis & Applications: Students will analyze data to address the situation.	
MA 5.4.2.a	Use observations, surveys, and experiments to collect, represent, and interpret the data using tables (e.g., frequency charts) and bar graphs.	MA 5.4.2.a
MA 5.4.2.b	Formulate questions that can be addressed with data and make predictions about the data.	MA 5.4.1.e
MA 5.4.3	Probability: Students will interpret and apply concepts of probability.	