

Math 6

State Standard Number	State Standard Area/Description	Unit Name	Course Topic Description
	Number and Number Sense		
6.1	The student will describe and compare data, using ratios, and will use appropriate notations, such as a/b , a to b , and $a:b$.	Representing Ratios	Entire Unit
6.2	The student will		
6.2.a	investigate and describe fractions, decimals, and percents as ratios;		
6.2.b	identify a given fraction, decimal, or percent from a representation;	Comparing and Ordering Decimals Introduction to Fractions Introduction to Percents	Pages 7-8 Dispersed Throughout Pages 6-10
6.2.c	demonstrate equivalent relationships among fractions, decimals, and percents; and	Converting Fractions and Decimals Connect Percents, Decimals and Fractions	Pages 1-14 Pages 1-13
6.2.d	compare and order fractions, decimals, and percents.	Comparing and Ordering Decimals Converting Fractions and Decimals Connect Percents, Decimals and Fractions	Pages 12-16 Pages 15-16 Pages 14-16
6.3	The student will		
6.3.a	identify and represent integers;		
6.3.b	order and compare integers; and		
6.3.c	identify and describe absolute value of integers.		
6.4	The student will demonstrate multiple representations of multiplication and division of fractions.	Multiplying Fractions Dividing Fractions	Dispersed Throughout Dispersed Throughout
6.5	The student will investigate and describe concepts of positive exponents and perfect squares.	Exponents (no perfect squares)	Entire Unit

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	Computation and Estimation		
6.6	The student will		
6.6.a	multiply and divide fractions and mixed numbers; and	Multiplying Fractions	Entire Unit
		Dividing Fractions	Entire Unit
6.6.b	estimate solutions and then solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of fractions.	Adding and Subtracting Like Fractions	Entire Unit
		Adding and Subtracting Unlike Fractions	Entire Unit
		Adding and Subtracting Mixed Numbers	Entire Unit
		Multiplying Fractions	Entire Unit
		Dividing Fractions	Entire Unit
6.7	The student will solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of decimals.	Estimating with Decimals	Entire Unit
		Adding and Subtracting Decimals	Entire Unit
		Multiplying Decimals	Entire Unit
		Dividing Decimals	Entire Unit
6.8	The student will evaluate whole number numerical expressions, using the order of operations.		
	Measurement		
6.9	The student will make ballpark comparisons between measurements in the U.S. Customary System of measurement and measurements in the metric system.	Conversions	Entire Unit
6.1	The student will		
6.10.a	define "pi" (π) as the ratio of the circumference of a circle to its diameter;		
6.10.b	solve practical problems involving circumference and area of a circle, given the diameter or radius;		

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6.10.c	solve practical problems involving area and perimeter; and	Perimeter and Area	Pages 14-16
6.10.d	describe and determine the volume and surface area of a rectangular prism.		
	Geometry		
6.11	The student will		
6.11.a	identify the coordinates of a point in a coordinate plane; and	Coordinate Geometry	Pages 10-13
6.11.b	graph ordered pairs in a coordinate plane.	Coordinate Geometry	Pages 1-10
6.12	The student will determine congruence of segments, angles, and polygons.		
6.13	The student will describe and identify properties of quadrilaterals.	Polygons	Page 9-11
	Probability and Statistics		
6.14	The student, given a problem situation, will		
6.14.a	construct circle graphs;		
6.14.b	draw conclusions and make predictions, using circle graphs; and	Analyze Graphs	Pages 18-19
6.14.c	compare and contrast graphs that present information from the same data set.		
6.15	The student will		
6.15.a	describe mean as balance point; and	Central Tendencies	Pages 1-8
6.15.b	decide which measure of center is appropriate for a given purpose.		
6.16	The student will		
6.16.a	compare and contrast dependent and independent events; and		

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6.16.b	determine probabilities for dependent and independent events.		
	Patterns, Functions, and Algebra		
6.17	The student will identify and extend geometric and arithmetic sequences.	Patterns	Entire Unit
6.18	The student will solve one-step linear equations in one variable involving whole number coefficients and positive rational solutions.	Adding and Subtracting with Decimals	Pages 14-18
		Adding and Subtracting Like Fractions	Pages 14-15
		Adding and Subtraction Unlike Fractions	Pages 15-17
6.19	The student will investigate and recognize		
6.19.a	the identity properties for addition and multiplication;		
6.19.b	the multiplicative property of zero; and		
6.19.c	the inverse property for multiplication.		
6.2	The student will graph inequalities on a number line.		