Diocese of Savannah

Math Curriculum

Kindergarten – Grade 8

2015

GRADE: K			
	TEAM/DEPARTMENT OUTCOMES (K-2)	**State Standards**	**National Standards**
1	SWBAT determine place value and its meaning up to 1,000.	K.CC, K.1.2.NBT,	
2	SWBAT solve addition and subtraction problems with regrouping up to three-digit numbers.	K.1.2.OA, 1.2.NBT	
3	SWBAT measure using appropriate tools and techniques.	K.1.2.MD	
4	SWBAT interpret data using tables and graphs.	K.1.2.MD	
5	SWBAT classify geometric shapes using their attributes.	K.1.2.G	
6	SWBAT explain the meanings of operations and how they relate to each other (addition, subtraction, and the foundations of multiplication.)	K.1.2.OA	
7	SWBAT apply time and money concepts to real life experiences.	K.1.2.MD	
	COURSE OUTCOMES (K)	**State Standards**	**National Standards**
1	SWBAT compare and contrast objects, sets, and numbers.	KCC6-7, KMD1-3 (DIOSAV: MK1-10)	NO:A1, NO:A4,NO: A5,
2	SWBAT identify relative positions and geometric shapes.	KMD1-2, KG1-6 (DIOSAV: MK8, MK28-31)	G:A1,G:B1,
3	SWBAT create and extend patterns.	(DIOSAV: MK32-33)	A:A2, A:A3
4	SWBAT demonstrate numbers 0 through 20 to gain a foundation for place value.	KCC3-5, K NBT1 (DIOSAV: MK1, 5-7, 10)	NO:A1, NO:A3, NO:A4, NO:A5
5	SWBAT count in sequence by ones, fives, and tens to 100.	KCC1-2, KCC4-5, KNBT1 (DIOSAV: MK2-5)	A:A2
6	SWBAT use appropriate tools for measurement.	KMD1-2 (DIOSAV: MK11-14, 20-27)	M:A1, M:A2, M:A3, M:A4, M:B1, M:B2, M:B3, M:B4,
7	SWBAT demonstrate the process of addition and subtraction.	KOA1-5 (DIOSAV: MK10, 13-14, 17-19)	NO:B2, NO:C1, A:C1
	UNIT CONCEPTS (K)	**State Standards**	**National Standards**
1	Classifying		
2	Geometry		
3	Number Sense 0-10		
4	Number Sense 11-20		
5	Place Value		
6	Graphing		
7	Measurement		
8	Time		
9	Money		
10	Addition		
11	Subtraction		
	UNIT GOALS (K)	**State Standards**	**National Standards**
1	SWBAT classify objects into given categories.	KMD3	MA2, DAPA2-3
2	SWBAT identify the attributes of 2D and 3D shapes.	KG1-3, 5-6	NOA6; AA1-3; AB1-3; AC1-2; AD1-4
3	SWBAT illustrate numbers 0-10(ordinal and cardinal form, verbal form, 1-1 correspondence)	KCC2-7	NOA1, 3-5; GD3
4	SWBAT illustrate the numbers 11-20 (ordinal and cardinal form, verbal form, and 1-1 correspondence).	KCC2-7; KNBT1	MGD3
5	SWBAT compose/decompose numbers with the base ten system to the tens place while recognizing numbers to 100.	KNBT1, KCC1	NOA2
6	SWBAT interpret data in simple graph form.	KMD1-2; KCC6-7	DAPA1-3; B1; C1
7	SWBAT describe measurable attributes of objects using standard and non-standard units (length and weight).	KMD1-3	NOB3; GD3; MA1-3; MB1-4
8	SWBAT report units of time (calendars and clocks to the hour).	KMD1-2; MK20-23	MA1
9	SWBAT identify coins by name and value.	KMD13; MK12-13	MB3
10	SWBAT apply the concept of addition within 10.	KOA1-5	NOB1-2
11	SWBAT apply the concept of subtraction within 10.	KOA 1-5	NOB1-2

GRADE: 1			
	TEAM/DEPARTMENT OUTCOMES (K-2)	**State Standards**	**National Standards**
1	SWBAT determine place value and its meaning up to 1,000.	CC, NBT	
2	SWBAT solve addition and subtraction problems with regrouping up to three-digit numbers.	OA, NBT	
3	SWBAT measure using appropriate tools and techniques.	MD	
4	SWBAT interpret data using tables and graphs.	MD	
5	SWBAT classify geometric shapes using their attributes.	G	
6	SWBAT explain the meanings of operations and how they relate to each other (addition, subtraction, and the foundations of multiplication.)	OA	
7	SWBAT apply time and money concepts to real life experiences.	MD	
	COURSE OUTCOMES (1)	**State Standards**	**National Standards**
1	SWBAT apply number sense using counting and place value to hundreds.	1OA5-6, 1OA8, 1NBT1, 1NBT1-6	NOA 1-5
2	SWBAT fluently solve single digit addition and subtraction problems.	1OA1-2, 1OA5-6, 1OA8, 1NBT3-6	NOB1-2; NOC1-2
3	SWBAT apply addition and subtraction properties.	1OA3-8, 1NBT3-6	AC1
4	SWBAT distinguish geometric shapes and their attributes.	1G1	GA-D
5	SWBAT manipulate geometric shapes.	1G2-3	GA3; GC1-2
6	SWBAT organize data using tables and graphs.	1MD4	DAPA-D
7	SWBAT demonstrate knowledge of time and money concepts.	1MD3, M1.6	MA1
8	SWBAT compare measurements using standard and nonstandard units.	1MD1-2	MA-B
		State Standards	**National Standards**
1	Number sense to 100		
2	Add and subtract within 20		
3	Place value to hundreds		
4	Addition and subtraction properties		
5	Graphing		
6	Measurement		
7	Money		
8	Time		
9	Geometry		
	UNIT GOALS (1)	**State Standards**	**National Standards**
1	SWBAT demonstrate number sense by comparing whole numbers through 100.	1NBT1	NOA1-5
2	SWBAT solve addition and subtraction word problems and equations within 20 using multiple strategies.	1OA5-6	NOB1-2; NOC1-2
3	SWBAT compare numbers based on one, tens, and hundreds place.	1NBT1-2a-c	NOA2
4	SWBAT demonstrate the properties and relationships of addition and subtraction of two-digit numbers.	1OA3-8; 1NBT3-6	NOB1-2; NOC1-2
5	SWBAT create and interpret data from simple tables and graphs.	1MD4	DAPA-D
6	SWBAT to compare length, weight, height, and capacity of concrete objects using standard and non-standard tools of measurement.	1MD1-2	MA-B
7	SWBAT identify the value of a group of coins that include pennies, nickels, dimes, and quarters less than one dollar.	M1.6 (diocesan)	
8	SWBAT state time to the hour and half hour using analog and digital clocks.	1MD3, M1.6 (diocesan)	MA1
9	SWBAT compare geometric shapes according to their attributes including fractional pieces.	1G1-3	GA-D

GRADE: 2			
	TEAM/DEPARTMENT OUTCOMES (K-2)	**State Standards**	**National Standards**
1	SWBAT determine place value and its meaning up to 1,000.	CC, NBT	
2	SWBAT solve addition and subtraction problems with regrouping up to three-digit numbers.	OA, NBT	
3	SWBAT measure using appropriate tools and techniques.	MD	
4	SWBAT interpret data using tables and graphs.	MD	
5	SWBAT classify geometric shapes using their attributes.	G	
6	SWBAT explain the meanings of operations and how they relate to each other (addition, subtraction, and the foundations of multiplication.)	OA	
7	SWBAT apply time and money concepts to real life experiences.	MD	
	COURSE OUTCOMES (2)	**State Standards**	**National Standards**
1	SWBAT apply number sense using counting and place value to thousands.	2NBT1-4	NOA2
2	SWBAT solve addition and subtraction problems up to 1000.	2OA1-2, 2NBT5-9, 2MD5-6	NOB1-2
3	SWBAT compare and contrast the measurement of objects using systems of measurement.	2MD1-4	MA1-4, MB1-4
4	SWBAT produce a graph using gathered data.	2MD9-10	DAPA2,3
5	SWBAT manipulate geometric shapes.	2G1-3	A1-3
6	SWBAT demonstrate the relationship between addition and multiplication.	2OA3-4	NOB3
7	SWBAT demonstrate knowledge of time and money concepts.	2MD7-8	MB3
	UNIT CONCEPTS (2)	**State Standards**	**National Standards**
1	Number sense up to 1000		
2	Addition and subtraction to 100		
3	Geometry		
4	Fractions		
5	Time		
6	Money		
7	Addition and subtraction up to 1000		
8	Representing and interpreting data		
9	Measurement		
10	Introduction to the concept of multiplication		
	UNIT GOALS (2)	**State Standards**	**National Standards**
1	SWBAT determine place value using standard and expanded form up to 1000.	2NBT1 A-B	NOA2,4
2	SWBAT solve addition and subtraction problems with regrouping up to 100.	2OA1,2NBT5-6, M2.11	NOB1-2
3	SWBAT classify different geometric shapes according to their attributes.	2G1;M2.29-2.30	GA1-3
4	SWBAT divide shapes into equal shares using fractional terminology (halves, thirds, fourths, etc.)	2G3; M216-2.17	NO6
5	SWBAT determine time using analog and digital clocks to the nearest five minutes.	2MD7;M2.22	MB3
6	SWBAT make change using dollars and coins.	2MD8; M2.9	MB3
7	SWBAT solve addition and subtraction problems with regrouping up to 1000.	2NBT7,9	NOB1-2
8	SWBAT produce a bar graph, picture graph, and line plot using gathered data.	2MD10; M2.37-2.40	DAPA2-3
9	SWBAT compare length, height, weight, and volume.	M2.23, 2.25-2.27	MA1-4; MB1-4
10	SWBAT apply the concept of multiplication using repeated addition and arrays.	20A4	NOB3

GRADE: 3			
	TEAM/DEPARTMENT OUTCOMES (3-5)	**State Standards**	**National Standards**
1	SWBAT apply place value, patterns, and relationships to fractions and whole numbers to the millions place and of decimals to the thousandths place.	NBT, NF	NO: A
2	SWBAT solve real world problems using the four operations with whole numbers, fractions and decimals.	OA, NF	NO: A
3	SWBAT convert like measurement units within a given measurement system to solve problems.	MD	M: A-B
4	SWBAT demonstrate data organization and interpretation using tables and graphs.	MD	A: A-D
5	SWBAT classify attributes of geometric figures using properties and formulas.	G, MD	G: A-D
	COURSE OUTCOMES (3)	**State Standards**	**National Standards**
1	SWBAT apply concepts of place value and properties of operation to multi-digit arithmetic to the hundred-thousands.	3.OA ,1-9; 3.NBT, 1-3, (DIOSAV: M3.1)	NO: A
2	SWBAT solve whole number problems using the four operations.	3.OA, 1-9	NO: A
3	SWBAT demonstrate fluency of multiplication and division facts.	3.0A7	NO: A
4	SWBAT demonstrate an understanding of measurement, time, volume, mass and estimation.	3.MD, 1,2, 4-8	NO: A
5	SWBAT construct and analyze tables and graphs from a variety of data.	3.MD, 3,4	NO: B&C
6	SWBAT compare and contrast fractions and the attributes of geometric shapes	3GA1-2, 3NF1-3, 3MD4-8	G: A&D; NO: C
	UNIT CONCEPTS (3)	**State Standards**	**National Standards**
1	Place value of whole numbers and decimals to ten-thousands		
2	Multi-digit and multi-step addition		
3	Multi-digit and multi-step subtraction		
4	Operations of multiplication		
5	Operations of division		
6	Fraction concepts		
7	Measurement and time		
8	Data and graphs		
9	Geometric shapes		
	UNIT GOALS (3)	**State Standards**	**National Standards**
1	SWBAT apply place value understanding for multi-digit decimals through the hundredths and whole numbers through the ten-thousands.	3OA 1-9; 3NBT 1-3	NO:A
2	SWBAT solve multi-digit equations including word problems involving addition.	OA 1-9	NO: B,C
3	SWBAT solve multi-digit and multi-step equations and word problems involving subtraction.	OA 1-9	NO: B,C
4	SWBAT apply operational strategies to solve multiplication problems with and without regrouping.	OA 7	NO:C
5	SWBAT apply operational strategies to solve division problems with and without remainders.	OA 7	NO:C
6	SWBAT relate parts of a whole and parts of a set using fractions.	MD4-8; NF1-3	NO:A
7	SWBAT examine customary and metric measurements of time, volume, length and mass using appropriate tolls.	MD 1,2,4-8	M: A,B
8	SWBAT interpret data from a variety of graphs to form conclusions.	MD 3,4	DAP:A-D; A:C
9	SWBAT compare and contrast 2 and 3 dimensional shapes by attributes.	G1-2	G: A-D

GRADE: 4			
	TEAM/DEPARTMENT OUTCOMES (3-5)	**State Standards**	**National Standards**
1	SWBAT apply place value, patterns, and relationships to fractions and whole numbers to the millions place and of decimals to the thousandths place.	NBT, NF	NO: A
2	SWBAT solve real world problems using the four operations with whole numbers, fractions and decimals.	OA, NF	NO: A
3	SWBAT convert like measurement units within a given measurement system to solve problems.	MD	M: A & B
4	SWBAT demonstrate data organization and interpretation using tables and graphs.	MD	A: A-D
5	SWBAT classify attributes of geometric figures using properties and formulas.	G, MD	G: A-D
	COURSE OUTCOMES (4)	**State Standards**	**National Standards**
1	SWBAT apply concepts of place value and properties of operations to solve multiplication and division problems.	4.NBT.1-2, 4NBT5-6; 4.OA.1-5	NO: A
2	SWBAT classify geometric shapes by properties of their lines and angles.	4.MD.5-7; 4.G.1-3	NO: A
3	SWBAT demonstrate understanding of fraction equivalence and ordering	4.NF.1-2; 4.OA.1; 4OA.4	NO: A
4	SWBAT apply concepts of place value and properties of operations to solve fraction and decimal problems.	4.NF.3-5; 4.MD.4; 4NBT3	NO: B & C
5	SWBAT express fractions in decimal notation and compare decimal fractions.	4.NF5-7	NO: A-C
6	SWBAT solve problems involving measurement and conversion within systems of measurement.	4MD1-3	M: A & B
7	SWBAT construct and analyze tables and graphs from a variety of data.	4MD4	A: A-D; DAP: A-D
	UNIT CONCEPTS (4)	**State Standards**	**National Standards**
1	Place value of whole numbers and decimals		
2	Multi-digit addition and subtraction of whole numbers		
3	Multi-digit multiplication		
4	Multi-digit division		
5	Fraction and decimal concepts		
6	Operations with Fractions		
7	Measurement and conversions		
8	Data and Graphs		
9	Geometry: lines, angles, and shapes		
	UNIT GOALS (4)	**State Standards**	**National Standards**
1	SWBAT apply place value concepts when comparing and rounding multi-digit numbers to the millions and decimals to the thousandths.	4NBT1-3	NO:A
2	SWBAT calculate addition and subtraction of multi-digit whole numbers using standard algorithms.	4NBT 1,4	NO:B,C
3	SWBAT solve multiplication problems of whole numbers up to four digits using multiple strategies.	4OA 1-5; 4NBT5	NO:B,C; A:B
4	SWBAT solve division problems with whole number quotients and remainders up to four digits with one-digit divisors using multiple strategies.	4OA2-3,5; 4NBT6	NO:C
5	SWBAT compare fraction equivalents including decimals.	4NF1-, 5-7; 4MD4	NO:A
6	SWBAT solve addition and subtraction of mixed numbers, improper fractions, and multiplication of a fraction by a whole number.	4NF 3-4	NO:C
7	SWBAT solve problems using customary and metric measurement by applying formulas and conversions.	MD1-7	M:A-B
8	SWBAT construct graphs from a variety of data.	MD4	DAP: A-D; A:C
9	SWBAT represent 2D and 3D shapes using properties of lines and angles.	G 1-3	G: A-D

GRADE: 5			
	TEAM/DEPARTMENT OUTCOMES (3-5)	**State Standards**	**National Standards**
1	SWBAT apply place value, patterns, and relationships to fractions and whole numbers to the millions place and of decimals to the thousandths place.	NBT, NF	NO:A
2	SWBAT solve real world problems using the four operations with whole numbers, fractions and decimals.	OA, NF	NO:A
3	SWBAT convert like measurement units within a given measurement system to solve problems.	MD	M: A&B
4	SWBAT demonstrate data organization and interpretation using tables and graphs.	MD	A: A - D
5	SWBAT classify attributes of geometric figures using properties and formulas.	G, MD	G: A - D
	COURSE OUTCOMES (5)	**State Standards**	**National Standards**
1	SWBAT apply the principles of place value to numbers from thousandths to billions.	5.NBT, 1-4	NO: A
2	SWBAT perform operations with whole numbers, decimals, and fractions.	5.NBT 2-7; 5NF, 1-7	NO: A
3	SWBAT evaluate simple algebraic expressions, patterns, and relationships to solve problems.	5.OA1-3	NO: B & C
4	SWBAT convert like measurement units within a given measurement system to solve multi-step problems.	5.MD, 1,3-5	M: A & B
5	SWBAT interpret data in tables and graphs.	5.MD, 2	A: A - D; DAP: A-D
6	SWBAT analyze geometric figures.	5G3-4	G: A-D
7	SWBAT use a coordinate plane to solve mathematical problems.	5G1-2	A: A-D
	UNIT CONCEPTS (5)	**State Standards**	**National Standards**
1	Place value of whole numbers and decimals		
2	Operations with whole numbers		
3	Operations with decimals		
4	Addition and subtraction of fractions and mixed numbers		
5	Multiplication and division of fractions and mixed numbers		
6	Algebraic thinking		
7	Measurement		
8	Data analysis		
9	Geometry		
	UNIT GOALS (5)	**State Standards**	**National Standards**
1	SWBAT apply place value through billions, and decimals through hundred thousandths, including estimating, rounding and comparing.	5NBT 13, 1-2	NO: A
2	SWBAT solve addition, subtraction, multiplication, and division problems of whole numbers.	5NBT 5-7	NO: B-C
3	SWBAT solve addition, subtraction, multiplication and division problems of decimals.	5 NBT3-4	NO: A-C; A:B
4	SWBAT solve addition and subtraction problems of fractions and mixed numbers with like and unlike denominators.	5NF 307	NO:C
5	SWBAT solve multiplication and division of fractions and mixed numbers.	5NF 1-2	NO:A,C
6	SWBAT analyze problems using 4 operations with whole numbers including variables, expressions, equations, patterns, and relationships.	5OA 1-2	A:A-D
7	SWBAT use formulas to solve problems including measurement conversions and volume.	5MD 1,3-5	M: A-B
8	SWBAT apply coordinate graphing and line plot skills to solve problems.	5G2; MD2	G: B; DAP:A-D
9	SWBAT classify 2 and 3 dimensional figures into categories based on their properties.	5G3-4	G:D

GRADE: 6			
	TEAM/DEPARTMENT OUTCOMES (6-8)	**State Standards**	**National Standards**
1	SWBAT apply concepts of ratios and proportionality.	RP	
2	SWBAT perform calculations with real numbers.	NS	
3	SWBAT analyze mathematical problems using expressions, equations, and inequalities	EE	
4	SWBAT interpret functional relationships in tables, graphs, and equations.	EE	
5	SWBAT analyze spatial relationships, formulas, and geometric properties.	G	
6	SWBAT interpret events with probability and statistical concepts.	SP	
	COURSE OUTCOMES (6)	**State Standards**	**National Standards**
1	SWBAT perform mathematical operations with decimals, fractions, percents, and integers.	6.NS 1-4	
2	SWBAT develop an understanding of the rational number system.	6.NS 1-8	
3	SWBAT apply ratios and rates to solve problems.	6.RP 1-3	
4	SWBAT evaluate numerical and algebraic expressions.	6.EE 1-4	
5	SWBAT solve one-step equations and inequalities using algebraic processes and graphic representations.	6.EE 5-9	
6	SWBAT solve mathematical problems using geometric formulas.	6.G 1-4	
7	SWBAT demonstrate an understanding of statistical variability and distributions.	6.SP 1-5	
	UNIT CONCEPTS (6)	**State Standards**	**National Standards**
1	Operations of decimals		
2	Operations of fractions		
3	Rates and Unit Ratios		
4	Integers		
5	Algebraic Expressions		
6	One-step equations		
7	Geometric Formulas		
8	Statistics and Data		
	UNIT GOALS (6)	**State Standards**	**National Standards**
1	SWBAT use the four operations to solve multi-digit decimal problems.	6NS3	NOA1-2; NOB1-2; NOC1-2
2	SWBAT use the four operations to solve problems involving fractions.	6NS1	NOA1-2; NOB1-2; NOC1-2
3	SWBAT apply ratio concepts and reasoning to solve mathematical problems.	6RP1-3	NOA1,4
4	SWBAT apply concepts of integers to perform the four basic operations.	6NS5-8; 6EE1	NOA7; NOC2
5	SWBAT apply prior mathematical knowledge to evaluate algebraic expressions.	6EE1-4	NOB2; AB1,4
6	SWBAT solve one-step equations using inverse operations.	6EE5	NOB2; BOC2, AA3
7	SWBAT apply appropriate geometric formulas to solve mathematical problems.	6G1-2	GA1-2
8	SWBAT describe and interpret sets of data.	6SP1-5	DAPA1-2; DAPB1-2

GRADE: 7			
	TEAM/DEPARTMENT OUTCOMES (6-8)	**State Standards**	**National Standards**
1	SWBAT apply concepts of ratios and proportionality.	RP	
2	SWBAT perform calculations with real numbers.	NS	
3	SWBAT analyze mathematical problems using expressions, equations, and inequalities	EE	
4	SWBAT interpret functional relationships in tables, graphs, and equations.	EE	
5	SWBAT analyze spatial relationships, formulas, and geometric properties.	G	
6	SWBAT interpret events with probability and statistical concepts.	SP	
	COURSE OUTCOMES (7)	**State Standards**	**National Standards**
1	SWBAT calculate with rational numbers.	7.NS 1-3	
2	SWBAT analyze proportional relationships to solve problems.	7.PR 1-3	
3	SWBAT solve problems using numerical and algebraic expressions and equations.	7.EE 1-4	
4	SWBAT apply an understanding of geometric relationships, formulas, properties, and figures.	7.G 1-6	
5	SWBAT use statistical data to draw inferences.	7.SP 1-4	
6	SWBAT construct valid probability models.	7.SP 5-8	
	UNIT CONCEPTS (7)	**State Standards**	**National Standards**
1	Integers		
2	Fractions, decimals, and percents		
3	Ratios and proportions		
4	Numerical and algebraic expressions		
5	Algebraic equations and inequalities		
6	Geometry and measurement		
7	Statistics		
8	Probability		
	UNIT GOALS (7)	**State Standards**	**National Standards**
1	SWBAT perform mathematical operations using integers.	7NS1-3	NOA7, NOB1-3
2	SWBAT demonstrate the relationship among fractions, decimals, and percents to solve mathematical problems.	7NS1-3; 7EE3	NOA1-3; NOB1-2; NOC1-3
3	SWBAT evaluate relationships using ratios and proportions.	7RP1-3; 7G1	NOA4, NOC3-4; MB5-6; GA2
4	SWBAT evaluate numerical and algebraic expressions.	7EE1-2	
5	SWBAT solve multi-step algebraic equations and inequalities.	7EE3-4	NOB2; AB1,3
6	SWBAT solve area, surface area, perimeter, volume, and unit conversion problems.	7G2-6	MA1-3; MB3-4; GA1; D1-3,5
7	SWBAT apply statistical methods to interpret data.	7SP1-4	DAPA1-2, DAPB1-2; DAPC2

GRADE: 8			
	TEAM/DEPARTMENT OUTCOMES (6-8)	**State Standards**	**National Standards**
1	SWBAT apply concepts of ratios and proportionality.	RP, EE	
2	SWBAT perform calculations with real numbers.	NS	
3	SWBAT analyze mathematical problems using expressions, equations, and inequalities	EE	
4	SWBAT interpret functional relationships in tables, graphs, and equations.	EE	
5	SWBAT analyze spatial relationships, formulas, and geometric properties.	G	
6	SWBAT interpret events with probability and statistical concepts.	SP	
	COURSE OUTCOMES (8)	**State Standards**	**National Standards**
1	SWBAT apply mathematical concepts to radical expressions and integer exponents.	8.NS 1-28; EE 1-4	
2	SWBAT analyze mathematical models of proportional relationships and linear equations and systems.	8.EE 5-8	
3	SWBAT compare and contrast functions to model relationships between quantities.	8.F 1-5	
4	SWBAT investigate patterns of association between sets of data.	8.SP 1-4	
5	SWBAT apply congruence, similarity, and transformations using various models.	8.G 1-5	
6	SWBAT model real life phenomena using properties of geometric figures.	8.G 6-9	
	UNIT CONCEPTS (8)	**State Standards**	**National Standards**
1	The real number system		
2	Exponents and scientific notation		
3	Equations and inequalities		
4	Ratios and proportions		
5	Slope and functions		
6	Probability and statistics		
7	Similar figures and the Pythagorean Theorem		
8	Geometry		
9	Area and volume of 3D figures		
	UNIT GOALS (8)	**State Standards**	**National Standards**
1	SWBAT compare and contrast rational and irrational numbers.	8NS1-2	
2	SWBAT apply the rules and properties of exponents and scientific notation.	8EE3-4	NOA5
3	SWBAT solve multi-step equations and inequalities.	8EE7-8	AA1-3; B3-4
4	SWBAT apply proportional reasoning to solve real world problems.	8F4	NOA4; MB5
5	SWBAT demonstrate an understanding of slope and linear equations.	8EE5-8; 8F1-5	AB2-3, D1
6	SWBAT analyze data to draw logical conclusions and predict outcomes.	8SP	DAPB1-2; DAPC1-3; DAPD1-3
7	SWBAT model the Pythagorean theorem using real world problems and concepts of similar figures	8G 4, 6-8	GA3, GC2, GD5
8	SWBAT apply geometric properties to real world situations.	8G1-3	GA3, GC2, GD5
9	SWBAT calculate are and volume of 3D figures.	8G9	GA1; GAB1, GAD2; MA3; MB4