COURSE CURRICULUM MAP -- MATH 6

Mathematical skill	Conceptual Framework	Subset	Curric. Lvl	Text	Module
Module 1					
Express sequences algebraically	Patterns & Functions	Number	I	1	1-11
Given an arithmetic or geometric sequence, find the nth term of the sequence	Patterns & Functions	Number	I	1	1-11
Identify parallel lines	Geometry	Geometry	I/D	1	1-21
Classify triangles according to sides	Geometry	Geometry	D/T	1	1-22
Classify triangles according to angles	Geometry	Geometry	D/T	1	1-23
Recognize angle relationships	Number Sense	Relationship	I	1	1-23
Use Logical Reasoning (inductive and deductive)	Patterns & Functions	Logic	D	1	1-32
Apply order of operations to problems	Number Sense	Computation without Calculator	I/D	1	1-43
Classify angle pairs	Measurement	Angles	I/D	B2	B2/2-1
Determine angle measures using angle relationships	Measurement	Types	I	B2	B2/2-1
Recognize and name rational numbers	Number Sense	Number Sets	I	B3	B3/4-2
Multiply whole numbers 3 digit x 2 digit and beyond	Number Sense	Computation without Calculator	D/T	1	p. 595 Toolbox
Divide whole numbers 3 digit x 2 digit and beyond	Number Sense	Computation without Calculator	D/T	1	p. 596 Toolbox
Recognize and name whole numbers to billions	Number Sense	Number Sets	D/T	Supp	Supp
Write whole numbers through billions	Number Sense	Number Sets	D/T	Supp	Supp
Create Generalizations	Patterns & Functions	Logic	D/T	1	All Mods
Utilize problem solving strategies	Problem Solving	Problem Solving	D	1	All Mods
Utilizes mental math	Problem Solving	Problem Solving	D	1	All Mods

COURSE CURRICULUM MAP -- MATH 6

Module 2					
Recognize and name: special quadrilaterals and other polygons	Geometry	Geometry	D/T	1	2-11
Classify quadrilaterals according to sides and/or angles	Geometry	Geometry	D/T	1	2-11
Identify and use relationships among parts of complex 2D figures (e.g. parallel sides, congruent faces)	Geometry	Geometry	I	1	2-11 2-12
Identify and use properties of subsets of polygons	Geometry	Geometry	I	1	2-11 2-12
Analyze transformations and relate properties to similarity and congruence (rotation)	Geometry	Geometry	I	1	2-41
Read and write decimals to thousandths and beyond	Number Sense	Relationship	D/T	1	2-51
Compare and order decimals to the nearest thousandth and beyond	Number Sense	Relationship	D/T	1	2-52
Identify equivalent decimals	Number Sense	Relationship	D/T	1	2-52
Recognize and name rational numbers	Number Sense	Number Sets	I	B3	B3/4-2
Create Generalizations	Patterns & Functions	Logic	D/T	1	All Mods
Utilize problem solving strategies	Problem Solving	Problem Solving	D	1	All Mods
Utilizes mental math	Problem Solving	Problem Solving	D	1	All Mods

COURSE CURRICULUM MAP -- MATH 6

Module 3					
Based on data analysis, draw conclusions and develop convincing arguments	Statistics	Data Interpretation	I/D	1	3
Make predictions based on analysis	Statistics	Data Interpretation	D	1	3
Design various methods to gather data	Probability	Data Organization	D	1	3
Recognize metric units of measurement	Measurement	Systems	D/T	1	3-12
Converts units within a system (quarts to cups, mm to cm)	Measurement	Systems	I/D	1	3-13
Describe and compare collected data	Statistics	Data Interpretation	D/T	1	3-2
Analyze data to derive meaning	Statistics	Data Interpretation	D/T	1	3-2
Relate and convert decimals to percents	Number Sense	Relationship	I/D	1	3-22
Relate and convert fractions to percents	Number Sense	Relationship	D	1	3-22
Use and determine percents (%)	Number Sense	Relationship	I	1	3-22
Determine measures of variation (range) using technology as appropriate	Statistics	Data Interpretation	I	1	3-31
Determine measures of central tendency (mean, median, mode and range) in complex problems	Statistics	Data Interpretation	D	1	3-41 3-42
Round decimals to the nearest tenth and hundredth	Number Sense	Estimation	D/T	1	3-42
Relate and convert fractions to decimals	Number Sense	Relationship	D/T	1	3-42
Divide decimals	Number Sense	Computation without Calculator	D	1	3-51
Select an appropriate method of displaying data (stem-and-leaf)	Statistics	Data Organization	I/D	1	3-61
Divide decimals	Number Sense	Computation without Calculator	D	1	3-6
Determine measures of variation (outliers of a data set) using technology as appropriate	Statistics	Data Interpretation	I	B2	B2/5-1
Select an appropriate method of displaying data (box and whiskers)	Statistics	Data Organization	I/D	B2	B2/5-2
Select an appropriate method of displaying data (box and whiskers)	Statistics	Data Organization	I/D	B2	B2/6-4
Calculate percent (%) of change (sales tax, discounts, mark-up)	Measurement	Money	I/D	B2	B2/7-2

COURSE CURRICULUM MAP -- MATH 6

Module 3 (continued)					
Select an appropriate method of displaying data (box and whiskers)	Statistics	Data Organization	I/D	B2	B2/7-3
Recognize and name rational numbers	Number Sense	Number Sets	I	B3	B3/4-2
Create Generalizations	Patterns & Functions	Logic	D/T	1	All Mods
Utilize problem solving strategies	Problem Solving	Problem Solving	D	1	All Mods
Utilizes mental math	Problem Solving	Problem Solving	D	1	All Mods

COURSE CURRICULUM MAP -- MATH 6

Module 4					
Relate/compare experimental probability	Probability	Chance	D	1	4-11
Use tables and systematic listing to count outcomes, choices and possibilities	Probability	Chance	D	1	4-11 4-12
Use estimation in problem solving	Number Sense	Estimation	D	1	4-11
Express probability as decimals and/or percents	Probability	Numerical Representation	D	1	4-11
Relate/Compare theoretical probabilities	Probability	Chance	I/D	1	4-12
Predict theoretical probability	Probability	Chance	I/D	1	4-12
Identify greatest common factor	Number Sense	Number Theory	D	1	4-21
Test for Divisibility (2,3,4,5,6,9,10)	Number Sense	Number Theory	D/T	1	4-21
Express a number in its prime factorization form	Number Sense	Number Theory	D/T	1	4-22
Identify prime and composite	Number Sense	Number Theory	D/T	1	4-22
Write and evaluate powers (exponents – positive)	Number Sense	Computation without Calculator	D	1	4-23
Recognize exponents	Number Sense	Number Sets	D	1	4-23
Multiply fractions	Number Sense	Computation without Calculator	D	1	4-31
Multiply decimals	Number Sense	Computation without Calculator	D/T	1	4-41
Recognize and use functions	Patterns & Functions	Relationship	D/T	1	4-5
Identify and locate objects using the rectangular coordinate system	Geometry	Geometry	D/T	1	4-51
Solve for a variable in a formula with one step	Patterns & Functions	Relationship	I	1	4-52
Use variables to represent missing values	Patterns & Functions	Relationship	D/T	1	4-52
Write linear equations	Patterns & Functions	Relationship	I	1	4-52
Evaluate variable expressions through numerical substitutions	Patterns & Functions	Relationship	I	1	4-52

COURSE CURRICULUM MAP -- MATH 6

Module 4 (continued)					
Identify Least Common Multiple	Number Sense	Number Theory	D	1	4-61
Identify multiples	Number Sense	Number Theory	D/T	1	4-61
Add mixed numbers	Number Sense	Computation without Calculator	D	1	4-62
Recognize and name rational numbers	Number Sense	Number Sets	I	B3	B3/4-2
Create Generalizations	Patterns & Functions	Logic	D/T	1	All Mods
Utilize problem solving strategies	Problem Solving	Problem Solving	D	1	All Mods
Utilizes mental math	Problem Solving	Problem Solving	D	1	All Mods

COURSE CURRICULUM MAP -- MATH 6

Module 5					
Write inequalities	Patterns & Functions	Relationship	I	1	5-1
Identify Least Common Multiple	Number Sense	Number Theory	D	1	5-12
Converts units within a system (quarts to cups, mm to cm)	Measurement	Systems	I/D	1	5-22
Add mixed numbers	Number Sense	Computation without Calculator	D	1	5-41
Subtract mixed numbers	Number Sense	Computation without Calculator	D	1	5-43
Converts units within a system (quarts to cups, mm to cm)	Measurement	Systems	I/D	1	5-51
Properties: distributive 3*(2+4)=(3*2)+(3*4)	Number Sense	Number Theory	D	1	5-52
Recognize and use Commutative, Associative, and Distributive properties of addition and multiplication (numbers)	Patterns & Functions	Relationship	I/D	1	5-52
Divide Fractions	Number Sense	Computation without Calculator	I/D	1	5-6
Divide Integers	Number Sense	Computation without Calculator	I/D	1	5-61 5-62
Use and determine reciprocals	Number Sense	Relationship	D	1	5-61
Divide decimals	Number Sense	Computation without Calculator	D	1	5-62
Recognize and name rational numbers	Number Sense	Number Sets	I	B3	B3/4-2
Create Generalizations	Patterns & Functions	Logic	D/T	1	All Mods
Utilize problem solving strategies	Problem Solving	Problem Solving	D	1	All Mods
Utilizes mental math	Problem Solving	Problem Solving	D	1	All Mods

COURSE CURRICULUM MAP -- MATH 6

Module 6					
Use ratio and proportion (rates)	Number Sense	Relationship	D	1	6-21
Scatterplot a data set in two variables and estimate a line to fit the data	Statistics	Data Organization	I	1	6-33
Use ratio and proportion (rates)	Number Sense	Relationship	D	1	6-31 6-41 6-42
Estimate distances from a map (using a scale)	Measurement	Estimation	D/T	1	6-5
Identify similar shapes	Geometry	Geometry	D/T	1	6-51
Analyze transformations and relate properties to similarity and congruence (translation, reflection, dilation)	Geometry	Geometry	I	1	6-51
Use ratio and proportion (similarity)	Number Sense	Relationship	D	1	6-51
Use ratio and proportion to determine the unknown sides of similar triangles	Geometry	Geometry	I	1	6-52
Use ratio and proportion (scale drawing)	Number Sense	Relationship	D	1	6-52
Measure angles to nearest degree	Measurement	Angles	D/T	1	6-53
Use tree diagrams	Probability	Chance	D	1	6-62
Recognize and name rational numbers	Number Sense	Number Sets	I	B3	B3/4-2
Create Generalizations	Patterns & Functions	Logic	D/T	1	All Mods
Utilize problem solving strategies	Problem Solving	Problem Solving	D	1	All Mods
Utilizes mental math	Problem Solving	Problem Solving	D	1	All Mods

COURSE CURRICULUM MAP -- MATH 6

Module 7					
Identify intersecting, and perpendicular lines	Geometry	Geometry	I/D	1	7-12
Determine area of an irregular figure	Measurement	Types	I	1	7-12
Determine area of parallelograms	Measurement	Types	I/D	1	7-12
Determine area of triangle	Measurement	Types	I/D	1	7-13
Identify and use relationships among parts of complex 3D figures (e.g. parallel sides, congruent faces)	Geometry	Geometry	I	1	7-21 7-22
Measure/ determine volume of rectangular prisms	Measurement	Types	D	1	7-21
Identify and calculate radius and diameter	Measurement	Types	D/T	1	7-41
Determine the circumference of a circle	Measurement	Types	I/D	1	7-42
Determine area of trapezoids	Measurement	Types	I/D	2	7-5
Determine area of circle	Measurement	Types	I/D	1	7-51
Recognize and name integers	Number Sense	Number Sets	D/T	1	7-61
Identify and locate objects using the rectangular coordinate system	Geometry	Geometry	D/T	1	7-62
Develop spatial sense: 2D, 3D (incl. Draw/construct models)	Geometry	Geometry	D/T	B2	B2/8-2
Determine angle measures using angle relationships	Measurement	Types	I	B2	B2/6-4
Recognize and name rational numbers	Number Sense	Number Sets	I	B3	B3/4-2
Recognize equivalence between standard and metric measures (e.g. one liter is about one quart, one km is about .6 miles)	Measurement	Systems	D	Supp	Supp
Develop spatial sense: 2D, 3D (incl. Draw/construct models)	Geometry	Geometry	D/T	Middle Grades Math Project-	Spatial Visualization
Use formula to find perimeter of common and complex figures	Measurement	Types	D	1	p.599 Toolbox
Create Generalizations	Patterns & Functions	Logic	D/T	1	All Mods
Utilize problem solving strategies	Problem Solving	Problem Solving	D	1	All Mods
Utilizes mental math	Problem Solving	Problem Solving	D	1	All Mods

COURSE CURRICULUM MAP -- MATH 6

Module 8					
Add integers	Number Sense	Computation without Calculator	D	1	8-11
Recognize and use Commutative, Associative, and Distributive properties of addition and multiplication (variables)	Patterns & Functions	Relationship	I/D	1	8-11 8-12
Subtract integers	Number Sense	Computation without Calculator	D	1	8-12
Select an appropriate method of displaying data (line)	Statistics	Data Organization	I/D	1	8-21
Write numbers in scientific notation	Number Sense	Number Sets	D	1	8-22
Use and determine percents (%) including those greater than 100 and less than 1	Number Sense	Relationship	I	1	8-32
Use models/simulations to generate data	Probability	Data Organization	I	1	8-4
Use lengths & areas to determine theoretical geometric probabilities	Probability	Chance	I	1	8-41
Based on data analysis, draw conclusions and develop convincing arguments	Statistics	Data Interpretation	I/D	1	8-5
Recognize that data can be manipulated	Statistics	Data Interpretation	I/D	1	8-51
Examine basic credibility of data	Statistics	Data Interpretation	I/D	1	8-51
Determine Absolute Value of an Integer	Number Sense	Number Theory	D/T	B2	B2/2-2
Graph the line representing the solution of a linear equation	Patterns & Functions	Relationship	I	B2	B2/2-4
Solve one step linear equations and inequalities	Patterns & Functions	Relationship	I	B2	B2/2-5
Add and Subtract to simplify polynomial expressions	Patterns & Functions	Relationship	I	B2	B2/4-4
Multiply integers	Number Sense	Computation without Calculator	I/D	B2	B2/4-4
Solve one step linear equations and inequalities	Patterns & Functions	Relationship	I	B2	B2/7-3
Recognize and use $\geq$, $\leq$, and not equal to	Number Sense	Relationship	I/D	B2	B2/7-3
Recognize and name rational numbers	Number Sense	Number Sets	I	B3	B3/4-2
Create Generalizations	Patterns & Functions	Logic	D/T	1	All Mods
Utilize problem solving strategies	Problem Solving	Problem Solving	D	1	All Mods
Utilizes mental math	Problem Solving	Problem Solving	D	1	All Mods

COURSE CURRICULUM MAP -- MATH 6