



Exeter Township School District

Sixth Grade Math Curriculum Map

Grade Level: __Sixth Grade__

Standard/Skill:	Qt1	Qt2	Qt3	Qt4	Notes and Resources
2.1 Numbers, Number Systems and Number Relationships					
2.1.6.A: Model and compare values of whole numbers, mixed numbers, fractions, and decimals.	X	X			
2.1.6.B: Represent whole numbers, fractions, mixed numbers, decimals, and percents in equivalent forms	X	X	X	X	
2.1.6.C: Use models to represent the concept of equivalent forms of a fraction, decimal, and/or percent.	X	X	X	X	
2.1.6.D: Apply place value concepts to order and compare decimals; use the number line to order and compare decimals, fractions, and mixed numbers.	X	X			
2.1.6.E: Apply number theory concepts to calculate the GCF (Greatest Common Factor) and/or LCM (Least Common Multiple) of two numbers.	X	X	X	X	
2.1.6.F: Apply the associative, commutative, distributive and/or identity properties to write equivalent forms of expressions.	X				



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2.2 Computation and Estimation					
2.2.6.B: Add, subtract, multiply, and divide whole numbers, decimals, fractions, and mixed numbers	X	X	X	X	
2.2.6.C: Apply the associative, commutative, distributive, and/or identity properties to evaluate numerical expressions.	X	X	X	X	
2.2.6.D: Estimate solutions of problems involving whole numbers and decimals and check the reasonableness of those estimates.	X	X			
2.3 Measurement and Estimation					
2.3.6.A: Use models to illustrate the meaning of perimeter, area, and volume.			X	X	
2.3.6.B: Use appropriate units to measure perimeter, area, and volume; use a protractor to measure angles between 0 and 180 degrees.			X	X	



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2.3.6.C: Use given measurements to calculate a missing length, perimeter, area, and/or volume; Calculate elapsed time across am/pm and across days.		X	X	X	
2.3.6.F: Estimate and verify measurements of length, perimeter, area, volume, capacity, temperature, time, weight, and angles.			X	X	
2.4 Mathematical Reasoning and Connections					
2.4.6.A: Use models, properties, and relationships to draw conclusions and explain reasons for conclusions.		X	X	X	
2.4.6.B: Use if...then statements to express conditional relationships.			X	X	



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2.5 Mathematical Problem Solving and Communication					
2.5.6.A: Develop a plan to analyze a problem, identify the information needed to solve the problem, carry out the plan, check whether an answer makes sense, and explain how the problem was solved in grade appropriate contexts.	X	X	X	X	
2.5.6.B: Use appropriate mathematical terms, vocabulary, language, symbols, and graphs to explain clearly and logically solutions to problems.	X	X	X	X	
2.6 Statistics and Data Analysis					
2.6.6.A: Gather data from a variety of appropriate sources.			X	X	
2.6.6.B: Select an appropriate method to organize data; select an appropriate format to display data			X	X	
2.6.6.C: Select and use, as appropriate, the mean, median, mode, and/or range to describe sets of data.		X	X		



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2.6.6.D: Use measures of central tendency to compare two sets of data.			X	X	
2.6.6.E: Interpret data displayed in a table, histogram, graph, or data summarized by numerical measures.			X	X	
2.7 Probability and Predictions					
2.7.6.A: Collect data and estimate the likelihood of outcomes of an event.			X	X	
2.7.6.B: Organize data collected in a simulation and select an appropriate format to display the data.			X	X	
2.7.6.C: Express the probability of a simple event as a fraction, decimal, and percent.			X	X	
2.7.6.D: List the possible outcomes for two independent events and compare the outcomes.			X	X	



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2.7.6.E: Find and interpret the experimental probability of an outcome of a simple event.			X	X	
2.8 Algebra and Functions					
2.8.6.A: Use the concept of equality to demonstrate understanding of the distributive property.	X	X			
2.8.6.B: Select and use strategies to solve number sentences (and inequalities) and explain the method of solution.	X	X	X	X	
2.8.6.C: Recognize, describe, extend, create, replicate, form a rule, and/or find a missing element for a variety of whole number patterns, sequences, and relationships verbally, numerically, symbolically, and graphically.	X	X	X	X	
2.8.6.D: Determine a functional rule from a table or graph.	X	X	X	X	
2.8.6.E: Use combinations of symbols and numbers to create expressions, equations, and inequalities that model mathematical situations.	X	X	X	X	



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2.8.6.F: Interpret the results of solving equations in one variable in the context of the situation that motivated the model.	X	X	X	X	
2.9 Geometry					
2.9.6.A: Identify, define, label, and/or describe properties of 1-, 2-, and 3-dimensional shapes and their related parts, and classify and compare 2- and 3- dimensional shapes on the basis of their properties.			X	X	
2.9.6.B: Predict and describe the result of a translation (slide), rotation (turn), or reflection (flip) of a 2- dimensional shape.			X	X	
2.9.6.C: Identify on a 2-dimensional coordinate system the location of points with non-negative fractional or decimal coordinates; plot in a two-dimensional coordinate system a point represented by an ordered pair of non-negative fractions, mixed numbers, or decimals.			X	X	
2.10 Trigonometry					
2.10.6.A: Identify and compare parts of right triangles, including right angles, acute angles, hypotenuses, and legs.			X	X	



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2.11 Concepts of Calculus					
2.11.6.A: Make comparisons of numbers (e.g., more, less, same, least, most, greater than, less than).	X	X	X	X	
2.11.6.B: Describe the relationship between rates of change and another variable (e.g., time, temperature).		X	X	X	
2.11.6.C: Estimate areas and volumes of shapes and solids as the sums of areas of tiles and volumes of cubes			X	X	