



Exeter Township School District

Fourth Grade Math Curriculum Map

Grade Level: Grade 4

Standard/Skill:	Qt1	Qt2	Qt3	Qt4	Notes and Resources
<b><u>2.1 Numbers, Number Systems and Relationships</u></b>					
2.1.4.A: Apply number patterns and relationships to count and compare values of whole numbers and simple fractions, and decimals.	x				
2.1.4.B: Represent equivalent forms of the same whole number, the same fraction, or the same decimal through the use of concrete objects, drawings, word names, and symbols.			x		
2.1.4.C: Use drawings, diagrams, or models to show the concept of a fraction as a part of a set and as division of a whole number by a whole number.			x		
2.1.4.D: Apply place value concepts and base-ten numeration to order and compare larger whole numbers.		x			
2.1.4.E: Apply factors and multiples to represent larger numbers in various ways.	x				
2.1.4.F: Understand the concepts of addition and subtraction and their inverse relationships;....	x				



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Understand the concepts of multiplication and division; use the four basic operation to solve problems, including word problems and equations.		x			
<b><u>2.2: Computation and Estimation</u></b>					
2.2.4.A: Develop fluency in the use of basic facts for the four operations	x	x	x	x	
2.2.4.B: Multiply single-and double-digit numbers and divide by single digit numbers, add and subtract...		x			
Fractions with like denominators, and add and subtract decimals			x		



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2.2.4.D: Estimate sums and differences products, and quotients and conclude the reasonableness of those estimates.	x				
<b><u>2.3 Measurement and Estimation</u></b>					
2.3.4.A: Use concrete objects to demonstrate an understanding of measurement quantities (e.g., length, temperature)...			x		
weight				x	
2.3.4.B: Select and use appropriate tools and units for measuring quantities-length, and temperature			x		
time	x				
weight				x	



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2.3.4.C: Calculate elapsed time; use concept of elapsed time to determine start time/end time.	x				
2.3.4.D: Perform basic conversions within the same system to the unit immediately above or below the given unit.				x	
2.3.4.F: Estimate and verify measurements of length, perimeter, area, weight, capacity, temperature, and time.		x	x		
<b><u>2.4:Mathematical Reasoning and Connections</u></b>					
2.4.3.A: Use models, number facts and properties to make conjectures, draw conclusions and explain reasons for conclusions.	x	x	x	x	
2.4.3.B: Recognize and use precise language to describe connections between mathematical ideas.	x	x	x	x	



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<b><u>2.5: Mathematical Problem Solving and Communication</u></b>					
2.5.4.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	
2.5.4.B: Use appropriate mathematical vocabulary graphs and symbols when explaining how to solve a problem.	x	x	x	x	
<b><u>2.6.Statistics and Data Analysis</u></b>					
2.6.4.A: Gather data from surveys and observation within the classroom or homes.		x			
2.6.4.B: Organize and display data using tables, pictures, tallies, bar graphs, line graphs or pictographs.	x	x	x	x	
2.6.4.C: Describe and calculate the mean and use this quantity to describe the data.		x	x	x	



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2.6.4.D: Analyze data shown in tables, charts, diagrams,, and graphs; compare the data from two categories displayed in a graph and compare representations of a set of data in different graphs.	x	x	x	x	
2.6.4.E: Determine the reasonableness of a statement based on a comparison to data displayed in a graph	x	x	x	x	
<b>2.7: Probability and Predictions</b>					
2.7.4.A: Determine the chance of an event occurring by performing simulations with concrete devices (e.g., dice, spinner).			x		
2.7.4.B: Determine whether different outcomes of the same event are equally likely or not equally likely.			x		
2.7.4.C: Express probabilities as fractions			x		
2.7.4.D: List or graph the possible results of an experiment.			x		



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2.7.4.E: Describe possible reasons for the difference between predicted and actual outcomes.			x		
<b><u>2.8: Algebra and Functions</u></b>					
2.8.4.A: Use the concept of equality and concrete objects to demonstrate understanding of commutative, associative, and identity properties.	x				
2.8.4.B: Select and use strategies including concrete objects to solve number sentences (equations and inequalities) involving whole numbers or unit fractions and explain the method of solution.	x	x	x	x	
2.8.4.C: Recognize, describe, extend, create, replicate, and make generalizations for a variety of patterns, sequences, and relationships verbally and numerically	x	x	x	x	
2.8.4.D: Use words, tables, and graphs to represent and analyze functions.	x	x	x	x	
2.8.4.E: Use concrete objects and combinations of symbols and numbers to create expressions, equations, and inequalities that model mathematical situations.	x	x	x	x	



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2.8.4.F: Describe data represented in equations, inequalities, tables, or graphs and/or create a story that matches the data.	x	x	x	x	
<b>2.9: Geometry</b>					
2.9.4.A: Identify, describe, and define 1-,2-, and 3-dimensional shapes and their related parts; compare 2-dimensional shapes; compare 3-dimensional shapes.			x		
2.9.4.B: Identify and draw figures with one or more lines of symmetry.			x		
2.9.4.C: Identify on a 2-dimensional coordinate system the location of points with whole number coordinates; plot in a two-dimensional coordinate system point represented by an ordered pair of whole numbers			x		



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<b><i>2.10: Trigonometry</i></b>					
2.10.4.A: Identify right angles in geometric figures.			x		
<b><u>2.11: Concepts and Calculus</u></b>					
2.11.4.A: Make comparisons of whole numbers and of unit fractions (e.g., more, less, same, least, most, greater than, less than).			x		