

## MATH Connections Correlation to Maryland Standards

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	Chapter 1	Chapter 2	Chapter 3	Chapter 4	Chapter 5	Chapter 6	Chapter 7	Chapter 8	Chapter 1	Chapter 2	Chapter 3	Chapter 4	Chapter 5	Chapter 6	Chapter 1	Chapter 2	Chapter 3	Chapter 4	Chapter 5	Chapter 6	Chapter 7	Chapter 8
	<b>Knowledge of Algebra Patterns and Functions</b>																					
1.12.1a Recognize, describe and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically. (CLG 1.1.1)		XX	XX	XX	XX	XX			XX	XX	XX	XX	XX		XX	XX	XX	X	XX	X	XX	
describe the relationship of sequences symbolically.						XX															XX	
recognize and extend recursive and explicit relationships of sequences.						XX																
describe functions and their properties using function notation.						XX								XX	XX	XX	X				XX	
1.12.1b Represent patterns, and/or functional relationships in a table, as a graph, and/or by mathematical expression. (CLG 1.1.2)		XX	XX	XX	XX	XX					XX	XX			XX	XX	XX				XX	
1.12.1c Create formulas built on patterns that are algebraic, trigonometric, logarithmic or exponential.		XX	XX	XX	XX	XX									XX	XX	XX				XX	
1.12.2 Write equivalent forms of equations, inequalities, and systems of equations and solve.		XX	XX	XX	XX				XX	XX			XX	XX	XX				XX			
analyze the relationships among coefficients, factors, and roots of a polynomial.			XX											XX								
add, subtract, multiply, and divide simple rational expressions.		XX												XX	XX					XX		
perform operations on algebraic expressions.		XX	XX	XX	XX	XX			XX	XX	XX	XX	XX	XX	XX	XX	XX		XX	XX	XX	
apply the operations of addition, subtraction, multiplication, and/or division of algebraic expressions to mathematical and real-world situations. (CLG 1.1.3)		XX	XX	XX	XX	XX			XX	XX	X	X	XX	XX	XX	X	X		XX	XX	X	
1.12.3a Apply formulas and/or use matrices (arrays of numbers) to solve real-world problems. (CLG 1.2.5)		XX	XX	XX	XX	XX			XX		XX	XX	XX	XX	XX	XX	XX		XX	XX	XX	

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1.12.3b Determine the equation for a line, solve linear equations, and/or describe the solutions using numbers, symbols, and/or graphs. (CLG 1.2.1)		XX	XX	XX	XX	XX			XX	XX				XX	XX				XX	X		
1.12.3c Select, justify and apply a method of solution to quadratic equations over the set of complex numbers and interpret the results graphically.																						
1.12.3d Solve linear inequalities and describe the solutions using numbers, symbols, and/or graphs. (CLG 1.2.2)		XX	XX	XX	XX	XX			XX	XX				XX	XX				XX	X		
1.12.3e Solve and describe if and where two straight lines intersect using numbers, symbols, and/or graphs. (CLG 1.2.3)			X		XX				X					XX					XX			
1.12.3f Solve systems of linear equations graphically.			X		XX				X					XX								
1.12.3g Interpret nonlinear (quadratic or exponential) functions or systems of equations, given a graph, table of values, essential characteristics, or a verbal description of a real-world situation.		X	X	X	XX	XX			X		X				XX	XX	XX	XX				
1.12.3h Choose the appropriate model from linear, quadratic, or exponential functions for a real-world situation.		XX	XX	XX		XX									XX	XX	XX		XX		XX	
1.12.3i Identify functions expressed numerically or algebraically as linear or nonlinear.		XX	XX	XX	XX	XX			XX	XX	X				XX	XX	XX					
1.12.3j Identify the domain, range, and rule of a function.						XX									XX	XX	XX				X	
1.12.3k Transform (translate, reflect and dilate) functions.			XX												XX	X	XX					
1.12.3l Identify linear and nonlinear functions expressed numerically, algebraically, and graphically.		X	X	X	X	XX									XX	XX	XX		X		X	

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1.12.4 Demonstrate understanding of the concept of a function and identify its characteristics.						XX									XX	XX	XX					X	
describe functions and their properties using function notation.						XX									XX	XX	XX					XX	
identify, graph and transform linear functions including the absolute value function.			XX			XX									XX								
describe the graph of a nonlinear function and discuss its appearance in terms of the basic concepts of maxima and minima (highs and low), roots (zeros), limits (boundaries), rate of change, and continuity. (CLG 1.1.4)			XX	XX	X	XX									XX	XX	XX	X					
describe how the graphical model of a nonlinear function represents a given problem and will estimate the solution. (CLG 1.2.4)			X	XX		XX									XX	XX	XX	X					
compare quadratic growth with linear and exponential growth.		XX	X												XX	XX							
analyze the effects of parameter changes on functions.			XX			XX									XX	XX	XX						
correlate numeric, symbolic and graphical representations of functions.			XX	XX	XX	XX									XX	XX	XX						
1.12.4a Graph to solve systems of linear equations and linear inequalities.					XX					X				XX	X				XX				
<b>Knowledge of Geometry</b>																							
2.12.1 Analyze the properties of geometric figures and/or construct or draw geometric figures using technology and tools. (CLG 2.1.1)										XX	XX		XX	XX							XX		XX
describe point relationships (collinear and coplanar).										XX			XX										
describe angles and angle relationships including vertical, adjacent, complimentary, supplementary, interior, exterior.										XX	XX	X											
describe geometric solids including cones, cylinders, spheres, prisms, and pyramids.										X				XX		X							

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describe circle/ sphere relationships including tangent, radius, diameter, chord, secant, central angle, inscribed angle, angles formed by secants and tangents and circumscribed and inscribed polygons.												XX											
2.12.2a Solve problems using two-dimensional figures and/or right-triangle trigonometry. (CLG 2.2.2)									XX	XX	XX	XX		XX					XX				
use the Pythagorean Theorem, its converse, properties of special right angles and right triangle trigonometry to find missing information about triangles.									XX	XX	XX		XX						XX				
2.12.2b Find and use measures of sides, interior angles and exterior angles of polygons to classify figures and solve problems.									XX	XX		XX	XX										
2.12.3 Construct or draw geometric figures using tools and technology.									XX	XX		XX	XX										
validate properties of geometric figures using appropriate tools and technology.									XX	XX		XX	XX							XX			
CLG 2.1.4 Construct a line segment congruent to a given line; and an angle congruent to a given angle.									XX	XX													
construct the bisector of a line segment and the bisector of an angle.									XX	XX													
construct a perpendicular to a given line from a point on the line and a point not on the line.									XX														
identify and/or verify properties of geometric figures using the coordinate plane and concepts from algebra. (CLG 2.1.2)										XX		XX	XX										
2.12.4 Apply properties and relationships from transformational geometry to problem situations.												XX											
use transformations to move figures, create designs, and/or demonstrate geometric properties.												XX											

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2.12.5a Apply properties and relationships from Euclidean geometry to problem situations.										XX												XX	
identify and/or verify congruent and similar figures and/or apply equality or proportionality of their corresponding parts. (CLG 2.2.1)										XX	XX	X									XX		
2.12.5b Identify or use inductive or deductive reasoning. (CLG 2.2.3)									X	XX	X	XX	XX								XX	XX	XX
<b>Knowledge of Measurement</b>																							
3.12.2 Use dimensional analysis to convert units and check measurement computation conversion.		XX	XX			XX					X					X							
3.12.3 Use techniques of measurement and estimate, calculate, and/or compare perimeter, circumference, area, volume, and/or surface area of two- and three- dimensional figures and their parts; results will be expressed with appropriate precision. (CLG 2.3.2)										XX	XX		XX	XX		XX							
3.12.4a Use algebraic and/or geometric properties to measure indirectly. (CLG 2.3.1)										XX	XX	XX	XX	XX		XX					XX		
3.12.4b Use various methods of indirect measure including trigonometric ratios, scale drawings, models, and mathematical formulas to solve problems in real-world contexts.										XX	XX	XX	XX	XX		XX					XX		
<b>Knowledge of Statistics</b>																							
4.12.1a Design and/or conduct an investigation that uses statistical methods to analyze data and communicate results. (CLG 3.1.1)	XX								XX														
4.12.3a Make informed decisions and predictions based upon the results of simulations and data from research. (CLG 3.2.1)									XX										XX				
describe data, make predictions, and draw inferences.	XX			XX					XX							XX	XX	XX	XX				

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4.12.3b Interpret data and/or make predictions by finding and using a line of best fit and by using a given curve of best fit. (CLG 3.2.2)				XX	XX							X			XX	XX	XX					
determine the equation of a line that best fits a set of linear data.				XX	XX							X										
4.12.4 Use the measures of central tendency and/or variability (mean, median, mode, range, interquartile range, quartile) to make informed conclusions. (CLG 3.1.2)	XX			XX	X			XX				X						XX				
4.12.5 Communicate the use and misuse of statistics. (CLG 3.2.3)	XX			XX	XX													XX				
analyze the validity of conclusions drawn from statistics by looking at factors such as sampling procedures and curve fitting.	XX			XX	XX													XX				
<b>Knowledge of Probability</b>																						
5.12.3a Design and conduct an experiment or simulation to compare the experimental probability with the theoretical probability as the number of trials increases.								XX														
5.12.3b Calculate theoretical probability or use simulations or statistical inferences from data to estimate the probability of an event. (CLG 3.1.3)								XX										XX				
define event and sample spaces and apply these concepts to determine the probability of an event.								XX										XX				
use counting techniques to solve probability problems.								XX										XX				
<b>Knowledge of Number Relationships and</b>																						
6.12.1 Read, write, and represent real numbers in a variety of forms including exponential and radical.	X	XX			XX	X			X	X		XX	X				XX					XX
write numbers with negative exponents for use in scientific notation.		XX															XX					

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6.12.2 Compare, order, and describe real numbers in a variety of equivalent forms.	X	XX														XX						XX	
classify and give examples of real numbers such as natural numbers, whole numbers, integers, rational numbers and irrational numbers.					X																	XX	
6.12.5 Add, subtract, multiply, and divide real numbers.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
calculate powers and roots of real numbers.		XX			XX				XX	XX		X	XX			XX							
simplify expressions with radical and fractional exponents.															XX	XX							
6.12.7 Select and apply computational strategies, including estimation and mathematical properties, to solve problems involving real numbers.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Process of Problem Solving</b>																							
<b>Students will demonstrate their ability to</b>																							
use information to identify and define the question(s) within a problem. (MLO 5.1, SFS 2.2, SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
make a plan and decide what information is needed or missing and steps needed to solve the problem. (MLO 5.2, SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
choose the appropriate operation(s) for a given problem situation. (MLO 5.3)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
create or select and then apply appropriate problem-solving strategies to solve a problem from visual (draw a picture, create a graph), numerical (guess and check, look for a pattern), and symbolic (write an equation) perspectives. (MLO 5.4, SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
analyze multi-step problem-solving situations. (SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

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organize, interpret, and use relevant information. (MLO5.5, SFS 2.2, SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
select and use appropriate tools and technology. (MLO 5.6, SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
persevere through to a solution.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
verify the conclusion based on the data and the processes used. (SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
communicate the conclusion with appropriate mathematical justification. (SFS 3.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
show that no solution or multiple solutions may exist. (MLO 5.7, SFS 3.2)		XX			XX				XX				XX	XX	XX				XX			
ascribe a meaning to the solution in the context of the problem.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
identify alternate ways to find a solution. (MLO 5.8, SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
apply what was learned to a new and/or more complex problem. (MLO 5.9, SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b><u>Process of Communication</u></b>																						
<b>Students will demonstrate their ability to organize and consolidate their mathematical thinking in order to analyze and use information, and will present ideas with words, symbols, visual displays, and technology.</b>																						
discuss, read, listen, and observe to obtain mathematical information from a variety of sources. (SFS 3.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
use multiple representations to express mathematical concepts and solutions. (MLO 5.10, SFS 2.4)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
represent problem situations and express their solutions using concrete, pictorial, tabular, graphical, and algebraic methods. (MLO 5.11, SFS 3.1)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
clarify meaning by asking questions, supporting solutions with evidence, and explaining mathematical ideas in oral and written forms. (SFS 3.1)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

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use mathematical language and symbolism appropriately. (MLO 5.12, SFS 3.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
organize, interpret, and describe situations mathematically by providing mathematical ideas and evidence in oral and written form. (MLO 5.13, SFS 3.1, SFS 3.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
give and use feedback to revise mathematical thinking/presentations/solutions. (SFS 3.1, SFS 3.3)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
present results in written, oral, and visual forms. (MLO 5.14, SFS 3.1, SFS 3.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
describe the reasoning and processes used in order to reach the solution to a problem.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Process of Reasoning</b>																						
<b>Students will demonstrate their ability to</b>																						
justify why an answer or approach to a problem is reasonable. (MLO 5.15, SFS 2.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
make and test generalizations based upon investigation or observation. (MLO 5.16, SFS 2.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
make predictions or draw conclusions from available information. (MLO 5.17, SFS 2.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
analyze statements and provide examples which support or refute them. (MLO 5.18, SFS 2.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
follow and judge the validity of arguments by applying inductive and deductive thinking. (MLO 5.19, SFS 2.2)									XX	XX		XX	XX							XX	XX	XX
use methods of proof including direct, indirect, paragraph, and/or contradiction.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
use supporting data to explain why a chosen method used and a solution are mathematically correct. (MLO 5.20, SFS 2.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

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analyze mathematical situations using manipulatives, technology, patterns, relationships, spatial and proportional reasoning. (SFS 2.2)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
use <i>if...then</i> statements to formulate valid arguments or proofs.												XX	XX		XX						XX	XX	XX
use manipulatives to model and justify solutions.	XX						XX	XX	XX	XX		XX	XX		XX			XX			XX		
<b>Process of Connections</b>																							
<b>Students will demonstrate their ability to</b>																							
identify and use the relationships among mathematical concepts as a basis for learning additional concepts. (MLO 5.21, SFS 1.3)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
identify the relationships among graphical, numerical, physical, and algebraic mathematical models and concepts. (MLO 5.22, SFS 1.32)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
identify mathematical concepts and processes as they apply to other content areas. (MLO 5.23, SFS 1.3)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
move beyond a particular problem by making general conclusions, summary statements and posing new, related questions and comments. (SFS 1.3)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
use mathematical concepts and processes to translate personal experiences into mathematical language. (MLO 5.24)	XX	XX				XX		XX	XX	XX		XX	XX										
identify the contributions of men and women of diverse cultures to the development, understanding, and application of mathematical concepts and processes.	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX