

Subject	Grade	Stream	Term	Chapter/ Module Number	Chapter/Module Name	Section/ Lesson Number	Section/Lesson Name	Number of Periods (Optional)	Lexis/ Key Words	Resources
Mathematics	Grade 08	General	T02	M5	Functions	M5L1	Identify Functions	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M5	Functions	M5L2	Function Tables	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M5	Functions	M5L3	Construct Linear Functions	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M5	Functions	M5L4	Compare Functions	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M5	Functions	M5L5	Nonlinear Functions	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M5	Functions	M5L6	Qualitative Graphs	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M6	Systems of Linear Equations	M6L1	Solve Systems of Equations by Graphing	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M6	Systems of Linear Equations	M6L2	Determine Number of Solutions	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M6	Systems of Linear Equations	M6L3	Solve Systems of Equations by Substitution	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M6	Systems of Linear Equations	M6L4	Solve Systems of Equations by Elimination	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M6	Systems of Linear Equations	M6L5	Write and Solve Systems of Equations	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M7	Triangles and the Pythagorean Theorem	M7L1	Angle Relationships and Parallel Lines	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M7	Triangles and the Pythagorean Theorem	M7L2	Angle Relationships and Triangles	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M7	Triangles and the Pythagorean Theorem	M7L3	The Pythagorean Theorem	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M7	Triangles and the Pythagorean Theorem	M7L4	Converse of the Pythagorean Theorem	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare
				M7	Triangles and the Pythagorean Theorem	M7L5	Distance on the Coordinate Plane	N/A	Refer to teacher guide	Supplement with digital resource found on LMS such as Aleks, AI Madrasa, Boclips, Lernatic, Edushare

Learning Outcomes		
S. Code	Common Core Standards	Subject Learning Outcomes (Main Outcome)
8.F.1 8.F.4 8.F.2 8.F.3 8.F.5	8.F.1 Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. 8.F.4 Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values. 8.F.2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). 8.F.3 Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. 8.F.5 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	Determine whether or not a relation is a function by identifying the number of outputs assigned to each input.
		Generate function tables from function rules and use the sets of ordered pairs to graph the functions.
		Write linear functions from graphs, tables, and verbal descriptions by finding the rate of change and initial value.
		Compare functions that are represented in different ways using their initial values and rates of change.
		Determine if a function, represented in different forms, is a linear or nonlinear function by using the rate of change, shape of the graph, or structure of the equation.
		Recognize a qualitative graph and interpret the scenario it represents as well as create a qualitative graph.
8.EE.8 8.EE.8a 8.EE.8b 8.EE.8c	8.EE.8 Analyze and solve pairs of simultaneous linear equations. 8.EE.8a Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously. 8.EE.8b Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. 8.EE.8c Solve real-world and mathematical problems leading to two linear equations in two variables.	Write equations in slope-intercept form in order to graph them and use the graphs to solve a system of equations.
		Use the slope-intercept form of lines in order to determine whether a system of equations has zero, one, or infinitely many solutions.
		Use substitution to solve a system of linear equations, including those that have zero or infinitely many solutions.
		Use elimination to solve a system of linear equations.
		Write and solve a system of equations that models a real-world scenario.
8.G.5 8.G.6 8.G.7 8.EE.2 8.G.8	8.G.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. 8.G.6 Explain a proof of the Pythagorean Theorem and its converse. 8.G.7 Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions. 8.EE.2 Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.	Use the relationships between angles formed by two parallel lines cut by a transversal to find the measures of missing angles.
		Find the measures of interior and exterior angles in a triangle by using relationships between these angles.
		Find the measures of the sides of a right triangle using the Pythagorean Theorem and square roots.
		Determine if a triangle is a right triangle by using the converse of the Pythagorean Theorem.
		Find the distance between two points on a coordinate plane using the Pythagorean Theorem.

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