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Most Essential Learning Competencies (MELCs)



Quarter	Content Standards The learner...	Performance Standards The learner...	Most Essential Learning competencies The learner...	Duration	K to 12 CG Code
		of lines using appropriate and accurate representations.			
	demonstrates understanding of key concepts of probability.	is able to formulate and solve practical problems involving probability of simple events.	illustrates an experiment, outcome, sample space and event.	Week 6	M8GE-IVf-1
			counts the number of occurrences of an outcome in an experiment: (a) table; (b) tree diagram; (c) systematic listing; and (d) fundamental counting principle.	Week 7	M8GE-IVf-g-1
			finds the probability of a simple event.	Week 8	M8GE-IVh-1
			illustrates an experimental probability and a theoretical probability.	Week 9	M8GE-IVi-1
			solves problems involving probabilities of simple events.		M8GE-IVi-j-1

Grade Level: Grade 9
Subject: Mathematics

Quarter	Content Standards The learner...	Performance Standards The learner...	Most Essential Learning competencies The learner...	Duration	K to 12 CG Code
Q1	demonstrates understanding of key concepts of quadratic equations, inequalities and functions, and rational	is able to investigate thoroughly mathematical relationships in various situations, formulate real-life problems involving quadratic	illustrates quadratic equations.	Week 1	M9AL-Ia-1
			solves quadratic equations by: (a) extracting square roots; (b) factoring; (c) completing the square; and (d) using the quadratic formula.		M9AL-Ia-b-1
			characterizes the roots of a quadratic equation using the discriminant.	Week 2 to 3	M9AL-Ic-1
			describes the relationship between the coefficients and the roots of a quadratic equation.		M9AL-Ic-2
			solves equations transformable to quadratic equations (including rational algebraic equations).		M9AL-Ic-d-1

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	The learner...	The learner...	The learner...		
	algebraic equations.	equations, inequalities and functions, and rational algebraic equations and solve them using a variety of strategies.	solves problems involving quadratic equations and rational algebraic equations.	Week 4	M9AL-Ie-1
			illustrates quadratic inequalities	Week 5	M9AL-If-1
			solves quadratic inequalities.		M9AL-If-2
			solves problems involving quadratic inequalities.		M9AL-If-g-1
			models real-life situations using quadratic functions.	Week 6	M9AL-Ig-2
			represents a quadratic function using: (a) table of values; (b) graph; and (c) equation.		M9AL-Ig-3
			transforms the quadratic function defined by $y = ax^2 + bx + c$ into the form $y = a(x - h)^2 + k$.	Week 7 to 8	M9AL-Ih-1
			graphs a quadratic function: (a) domain; (b) range; (c) intercepts; (d) axis of symmetry; (e) vertex; (f) direction of the opening of the parabola.		M9AL-Ig-h-i-1
			analyzes the effects of changing the values of a, h and k in the equation $y = a(x - h)^2 + k$ of a quadratic function on its graph.		M9AL-Ii-2
			determines the equation of a quadratic function given: (a) a table of values; (b) graph; (c) zeros.	Week 9	M9AL-Ij-1
			solves problems involving quadratic functions.		M9AL-Ii-j-2
Q2	demonstrates understanding of key concepts of variation and radicals.	is able to formulate and solve accurately problems involving radicals.	illustrates situations that involve the following variations: (a) direct; (b) inverse; (c) joint; (d) combined.	Week 1 to 2	M9AL-IIa-1
			translates into variation statement a relationship between two quantities given by: (a) a table of values; (b) a mathematical equation; (c) a graph, and vice versa.		M9AL-IIa-b-1
			solves problems involving variation.		M9AL-IIb-c-1
			applies the laws involving positive integral exponents to zero and negative integral exponents.	Week 3	M9AL-IId-1
			simplifies expressions with rational exponents.	Week 4	M9AL-IIe-1

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	The learner...	The learner...	The learner...		
			writes expressions with rational exponents as radicals and vice versa.		M9AL-IIIf-1
			derives the laws of radicals.	Week 5	M9AL-IIIf-2
			simplifies radical expressions using the laws of radicals.	Week 6	M9AL-IIg-1
			performs operations on radical expressions.	Week 7	M9AL-IIh-1
			solves equations involving radical expressions.	Week 8	M9AL-IIi-1
			solves problems involving radicals.	Week 9	M9AL-IIj-1
Q3	demonstrates understanding of key concepts of parallelograms and triangle similarity.	is able to investigate, analyze, and solve problems involving parallelograms and triangle similarity through appropriate and accurate representation.	determines the conditions that make a quadrilateral a parallelogram.	Week 1	M9GE-IIIf-2
			uses properties to find measures of angles, sides and other quantities involving parallelograms.		M9GE-IIIf-1
			proves theorems on the different kinds of parallelogram (rectangle, rhombus, square).	Week 2	M9GE-IIIf-1
			proves the Midline Theorem.	Week 3	M9GE-IIIf-1
			proves theorems on trapezoids and kites.		M9GE-IIIf-2
			solves problems involving parallelograms, trapezoids and kites.	Week 4	M9GE-IIIf-1
			describes a proportion.	Week 5	M9GE-IIIf-1
			applies the fundamental theorems of proportionality to solve problems involving proportions.		M9GE-IIIf-2
			illustrates similarity of figures.	Week 6 to 7	M9GE-IIIf-1
			proves the conditions for similarity of triangles. 1.1 SAS similarity theorem 1.2 SSS similarity theorem 1.3 AA similarity theorem 1.4 right triangle similarity theorem 1.5 special right triangle theorems		M9GE-IIIf-1
			applies the theorems to show that given triangles are similar.		M9GE-IIIf-1
			proves the Pythagorean Theorem.		M9GE-IIIf-2

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			solves problems that involve triangle similarity and right triangles.	Week 9	M9GE-IIIj-1
Q4	demonstrates understanding of the basic concepts of trigonometry.	is able to apply the concepts of trigonometric ratios to formulate and solve real-life problems with precision and accuracy.	illustrates the six trigonometric ratios: sine, cosine, tangent, secant, cosecant, and cotangent.	Week 1 to 2	M9GE-IVa-1
			finds the trigonometric ratios of special angles.		M9GE-IVb-c-1
			illustrates angles of elevation and angles of depression.	Week 3 to 5	M9GE-IVd-1
			uses trigonometric ratios to solve real-life problems involving right triangles.		M9GE-IVe-1
			illustrates laws of sines and cosines.	Week 6 to 9	M9GE-IVf-g-1
			solves problems involving oblique triangles.		M9GE-IVh-j-1