

Back to SCHOOL



[TEACHERPH.COM](https://www.teacherph.com)





TEACHERPH

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
	demonstrates understanding of key concepts, uses and importance of Statistics, data collection/gathering and the different forms of data representation, measures of central tendency, measures of variability, and probability.	is able to collect and organize data systematically and compute accurately measures of central tendency and variability and apply these appropriately in data analysis and interpretation in different fields.	gathers statistical data.	Week 2	M7SP-IVb-1
			organizes data in a frequency distribution table.	Week 3	M7SP-IVc-1
			uses appropriate graphs to represent organized data: pie chart, bar graph, line graph, histogram, and ogive.	Week 4 to 5	M7SP-IVd-e-1
			illustrates the measures of central tendency (mean, median, and mode) of a statistical data.	Week 6	M7SP-IVf-1
			calculates the measures of central tendency of ungrouped and grouped data.		M7SP-IVf-g-1
			illustrates the measures of variability (range, average deviation, variance, standard deviation) of a statistical data.	Week 7	M7SP-IVh-1
			calculates the measures of variability of grouped and ungrouped data.		M7SP-IVh-i-1
			uses appropriate statistical measures in analyzing and interpreting statistical data.	Week 8 to 9	M7SP-IVj-1
			draws conclusions from graphic and tabular data and measures of central tendency and variability.		M7SP-IVj-2

Grade Level: Grade 8
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 factors of polynomials,	is able to formulate real-life problems involving factors	factors completely different types of polynomials (polynomials with common monomial factor, difference of two squares, sum and difference of two cubes, perfect square trinomials, and general trinomials).	Week 1 to 2	M8AL-Ia-b-1
			solves problems involving factors of polynomials.		M8AL-Ib-2

Quarter	Content Standards The learner...	Performance Standards The learner...	Most Essential Learning competencies The learner...	Duration	K to 12 CG Code
	rational algebraic expressions, linear equations and inequalities in two variables, systems of linear equations and inequalities in two variables and linear functions.	of polynomials, rational algebraic expressions, linear equations and inequalities in two variables, systems of linear equations and inequalities in two variables and linear functions, and solve these problems accurately using a variety of strategies.	illustrates rational algebraic expressions.	Week 3	M8AL-lc-1
			simplifies rational algebraic expressions.		M8AL-lc-2
			performs operations on rational algebraic expressions.	Week 4	M8AL-lc-d-1
			solves problems involving rational algebraic expressions.		M8AL-lc-d-2
			illustrates the rectangular coordinate system and its uses.	Week 5	M8AL-le-1
			illustrates linear equations in two variables.		M8AL-le-3
			Illustrates and finds the slope of a line given two points, equation, and graph.		
			writes the linear equation $ax + by = c$ in the form $y = mx + b$ and vice versa.	Week 6	M8AL-lf-1
			graphs a linear equation given (a) any two points; (b) the x – and y – intercepts; (c) the slope and a point on the line.		M8AL-lf-2
			describes the graph of a linear equation in terms of its intercepts and slope.		M8AL-lf-3
			finds the equation of a line given (a) two points; (b) the slope and a point; (c) the slope and its intercepts.	Week 7	M8AL-lg-1
			solves problems involving linear equations in two variables.		M8AL-lg-2
			illustrates a system of linear equations in two variables.	Week 8	M8AL-lh-1
			graphs a system of linear equations in two variables.		M8AL-lh-2
			categorizes when a given system of linear equations in two variables has graphs that are parallel, intersecting, and coinciding.		M8AL-lh-3
			solves problems involving systems of linear equations in two variables by (a) graphing; (b) substitution; (c) elimination.	Week 9	

Quarter	Content Standards The learner...	Performance Standards The learner...	Most Essential Learning competencies The learner...	Duration	K to 12 CG Code
Q2	demonstrates key concepts of linear inequalities in two variables, systems of linear inequalities in two variables and linear functions.	is able to formulate and solve accurately real-life problems involving linear inequalities in two variables, systems of linear inequalities in two variables, and linear functions.	differentiates linear inequalities in two variables from linear equations in two variables.	Week 1	M8AL-IIa-2
			Illustrates and graphs linear inequalities in two variables.		
			solves problems involving linear inequalities in two variables.		M8AL-IIa-4
			solves problems involving systems of linear inequalities in two variables.	Week 2	M8AL-IIb-2
			illustrates a relation and a function.	Week 3	M8AL-IIc-1
			verifies if a given relation is a function.		M8AL-IIc-2
			determines dependent and independent variables.		M8AL-IIc-3
			finds the domain and range of a function.	Week 4	M8AL-IId-1
			graphs and illustrates a linear function and its (a) domain; (b) range; (c) table of values; (d) intercepts; and (e) slope.		
			solves problems involving linear functions.	Week 5	M8AL-IIe-2
	demonstrates understanding of key concepts of logic and reasoning.	is able to communicate mathematical thinking with coherence and clarity in formulating and analyzing arguments.	determines the relationship between the hypothesis and the conclusion of an if-then statement.	Week 6	M8GE-IIf-1
			transforms a statement into an equivalent if-then statement.		M8GE-IIf-2
			determines the inverse, converse, and contrapositive of an if-then statement.	Week 7	M8GE-IIg-1
			illustrates the equivalences of: (a) the statement and its contrapositive; and (b) the converse and inverse of a statement.	Week 8	M8GE-IIg-2
			uses inductive or deductive reasoning in an argument.	Week 9	M8GE-IIh-1
			writes a proof (both direct and indirect).		M8GE-IIi-j-1
Q3	demonstrates understanding of key concepts of axiomatic structure	1. is able to formulate an organized plan to handle a real-life situation.	describes a mathematical system.	Week 1 to 2	M8GE-IIla-1
			illustrates the need for an axiomatic structure of a mathematical system in general, and in Geometry in particular: (a) defined terms; (b) undefined terms; (c) postulates; and (d) theorems.		M8GE-IIla-c-1

Quarter	Content Standards The learner...	Performance Standards The learner...	Most Essential Learning competencies The learner...	Duration	K to 12 CG Code
	of geometry and triangle congruence.	2. is able to communicate mathematical thinking with coherence and clarity in formulating, investigating, analyzing, and solving real-life problems involving congruent triangles using appropriate and accurate representations.	illustrates triangle congruence.	Week 3 to 4	M8GE-III d-1
			illustrates the SAS, ASA and SSS congruence postulates.		M8GE-III d-e-1
			solves corresponding parts of congruent triangles	Week 5	M8GE-III f-1
			proves two triangles are congruent.	Week 6	M8GE-III g-1
			proves statements on triangle congruence.	Week 7	M8GE-III h-1
			applies triangle congruence to construct perpendicular lines and angle bisectors.	Week 8 to 9	M8GE-III i-j-1
Q4	demonstrates understanding of key concepts of inequalities in a triangle, and parallel and perpendicular lines.	is able to communicate mathematical thinking with coherence and clarity in formulating, investigating, analyzing, and solving real-life problems involving triangle inequalities, and parallelism and perpendicularity	illustrates theorems on triangle inequalities (Exterior Angle Inequality Theorem, Triangle Inequality Theorem, Hinge Theorem).	Week 1	M8GE-IV a-1
			applies theorems on triangle inequalities.	Week 2	M8GE-IV b-1
			proves inequalities in a triangle.	Week 3	M8GE-IV c-1
			proves properties of parallel lines cut by a transversal.	Week 4	M8GE-IV d-1
			determines the conditions under which lines and segments are parallel or perpendicular.	Week 5	M8GE-IV e-1

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