Back to SCHOOL

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Most Essential Learning Competencies (MELCs)

Grade Level: **Grade 7**
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 sets and the real number system.	is able to formulate challenging situations involving sets and real numbers and solve these in a variety of strategies.	illustrates well-defined sets, subsets, universal sets, null set, cardinality of sets, union and intersection of sets and the different of two sets	Week 1	
			solves problems involving sets with the use of Venn Diagram.	Week 2	
			represents the absolute value of a number on a number line as the distance of a number from 0.	Week 3	M7NS-Ic-1
			performs fundamental operations on integers.		M7NS-Ic-d-1
			illustrates the different properties of operations on the set of integers.	Week 4	M7NS-Id-2
			expresses rational numbers from fraction form to decimal form and vice versa.		M7NS-Ie-1
			performs operations on rational numbers	Week 5	M7NS-If-1
			describes principal roots and tells whether they are rational or irrational.	Week 6	M7NS-Ig-1
			determines between what two integers the square root of a number is.		M7NS-Ig-2
			estimates the square root of a whole number to the nearest hundredth.	Week 7	M7NS-Ig-3
			plots irrational numbers (up to square roots) on a number line.***		M7NS-Ig-4
			illustrates the different subsets of real numbers.	Week 8	M7NS-Ih-1
			arranges real numbers in increasing or decreasing order and on a number line.		
			writes numbers in scientific notation and vice versa.	Week 9	M7NS-Ii-1
			represents real-life situations and solves problems involving real numbers.		

Quarter	Content Standards The learner…	Performance Standards The learner…	Most Essential Learning competencies The learner…	Duration	K to 12 CG Code
Q2	demonstrates understanding of the key concepts of measurement.	is able to formulate real-life problems involving measurements and solve these using a variety of strategies.	approximates the measures of quantities particularly length , weight/mass, volume, time, angle and temperature and rate.	Week 1	M7ME-IIa-3
			converts measurements from one unit to another in both Metric and English systems.	Week 2	M7ME-IIb-1
			solves problems involving conversion of units of measurement.		M7ME-IIb-2
	demonstrates understanding of key concepts of algebraic expressions, the properties of real numbers as applied in linear equations, and inequalities in one variable.	is able to model situations using oral, written, graphical, and algebraic methods in solving problems involving algebraic expressions, linear equations, and inequalities in one variable.	translates English phrases to mathematical phrases and English sentences to mathematics sentences, and vice versa.	Week 3	
			Illustrates and differentiates related terms in algebra: a. a^n where n is a positive integer b. constants and variables c. literal coefficients and numerical coefficients d. algebraic expressions, terms and polynomials e. number of terms, degree of the term and degree of the polynomial.		
			evaluates algebraic expressions for given values of the variables.	Week 4	M7AL-IIc-4
			adds and subtracts polynomials.		M7AL-IId-2
			derives the laws of exponent.	Week 5	M7AL-IId-e-1
			multiplies and divides polynomials.		M7AL-IIe-2
			uses models and algebraic methods to find the: (a) product of two binomials; (b) product of the sum and difference of two terms; (c) square of a binomial; (d) cube of a binomial; (e) product of a binomial and a trinomial.	Week 6	M7AL-IIe-g-1
			solves problems involving algebraic expressions.	Week 7 to 8	M7AL-IIg-2
			differentiates algebraic expressions, equations and inequalities.		
			illustrates linear equation and inequality in one variable.		M7AL-IIh-4

Quarter	Content Standards The learner…	Performance Standards The learner…	Most Essential Learning competencies The learner…	Duration	K to 12 CG Code
			finds the solution of linear equation or inequality in one variable.	Week 9	M7AL-IIi-1
			solves linear equation or inequality in one variable involving absolute value by: (a) graphing; and (b) algebraic methods.		M7AL-IIi-j-1
			solves problems involving equations and inequalities in one variable.		M7AL-IIj-2
Q3	demonstrates understanding of key concepts of geometry of shapes and sizes, and geometric relationships.	is able to create models of plane figures and formulate and solve accurately authentic problems involving sides and angles of a polygon	represents point, line and plane using concrete and pictorial models.	Week 1	M7GE-IIIa-1
			illustrates subsets of a line.		M7GE-IIIa-2
			classifies the different kinds of angles.		M7GE-IIIa-3
			derives relationships of geometric figures using measurements and by inductive reasoning; supplementary angles, complementary angles, congruent angles, vertical angles, adjacent angles, linear pairs, perpendicular lines, and parallel lines.	Week 2	M7GE-IIIb-1
			derives relationships among angles formed by parallel lines cut by a transversal using measurement and by inductive reasoning.	Week 3	M7GE-IIIc-1
			uses a compass and straightedge to bisect line segments and angles and construct perpendiculars and parallels.	Week 4	M7GE-IIId-e-1
			illustrates polygons: (a) convexity; (b) angles; and (c) sides.	Week 5	M7GE-IIIe-2
			derives inductively the relationship of exterior and interior angles of a convex polygon.	Week 6	M7GE-IIIf-1
			illustrates a circle and the terms related to it: radius, diameter chord, center, arc, chord, central angle, and inscribed angle.	Week 7	M7GE-IIIg-1
			constructs triangles, squares, rectangles, regular pentagons, and regular hexagons.	Week 8	M7GE-IIIh-i-1
			solves problems involving sides and angles of a polygon.	Week 9	M7GE-IIIj-1
Q4			poses real-life problems that can be solved by Statistics.	Week 1	M7SP-IVa-2
			formulates simple statistical instruments.		M7SP-IVa-3

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