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
	experimental probability.	(tables and line graphs) and apply experimental probability in mathematical problems and real-life situations.	solves routine and non-routine problems using data presented in a line graph.	Week 7	M5SP-IVh-4.5
			draws inferences based on data presented in a line graph.		M5SP-IVh-5.5
			describes experimental probability.	Week 8	M5SP-IVi-14
			performs an experimental probability and records result by listing.		M5SP-IVi-15
			analyzes data obtained from chance using experiments involving letter cards (A to Z) and number cards (0 to 20).	Week 9	M5SP-IVi-16
			solves routine and non-routine problems involving experimental probability.		M5SP-IVj-17

Grade Level: Grade 6
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 the four fundamental operations involving fractions and decimals.	is able to apply the four fundamental operations involving fractions and decimals in mathematical problems and real-life situations.	adds and subtracts simple fractions and mixed numbers without or with regrouping.	Week 1	M6NS-Ia-86
			solves routine and non-routine problems involving addition and/or subtraction of fractions using appropriate problem solving strategies and tools.		M6NS-Ia-87.3
			multiplies simple fractions and mixed fractions.	Week 2	M6NS-Ib-90.2
			solves routine or non-routine problems involving multiplication without or with addition or subtraction of fractions and mixed fractions using appropriate problem solving strategies and tools.		M6NS-Ib-92.2
			divides simple fractions and mixed fractions.	Week 3	M6NS-Ic-96.2
			solves routine or non-routine problems involving division without or with any of the		M6NS-Ic-97.2

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			other operations of fractions and mixed fractions using appropriate problem solving strategies and tools.		
			adds and subtracts decimals and mixed decimals through ten thousandths without or with regrouping.	Week 4	M6NS-Id-106.2
			solves 1 or more steps routine and non-routine problems involving addition and/or subtraction of decimals and mixed decimals using appropriate problem solving strategies and tools.		M6NS-Id-108.2
			multiplies decimals and mixed decimals with factors up to 2 decimal places.	Week 5	M6NS-Ie-111.3
			multiplies mentally decimals up to 2 decimals places by 0.1, 0.01,10, and 100.		M6NS-Ie-111.4
			solves routine and non-routine problems involving multiplication of decimals and mixed decimals including money using appropriate problem solving strategies.		M6NS-Ie-113.2
			solves multi-step problems involving multiplication and addition or subtraction of decimals, mixed decimals and whole numbers including money using appropriate problem solving strategies and tools.	Week 6	M6NS-If-113.3
			divides: a. whole numbers by decimals up to 2 decimal places and vice versa b. decimals/mixed decimals up to 2 decimal places	Week 7	
			divides decimals: a. up to 4 decimal places by 0.1, 0.01, and 0.001	Week 8	

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			b. up to 2 decimal places by 10, 100, and 1 000 mentally		
			differentiates terminating from repeating, non-terminating decimal quotients.	Week 9	M6NS-Ii-119
			solves routine and non-routine problems involving division of decimals, mixed decimals, and whole numbers including money using appropriate problem solving strategies and tools.		M6NS-Ii-120.2
			solves multi-step routine and non-routine problems involving division and any of the other operations of decimals, mixed decimals, and whole numbers including money using appropriate problem solving strategies and tools.	Week 10	M6NS-Ij-120.3
Q2	demonstrates understanding of order of operations, ratio and proportion, percent, exponents, and integers.	is able to apply knowledge of order of operations, ratio and proportion, percent, exponents, and integers in mathematical problems and real-life situations.	expresses one value as a fraction of another given their ratio and vice versa.	Week 1	M6NS-IIa-129
			defines and illustrates the meaning of ratio and proportion using concrete or pictorial models.		M6NS-IIb-131
			finds a missing term in a proportion (direct, inverse, and partitive).	Week 2	M6NS-IIb-133
			solves problems involving direct proportion, partitive proportion, and inverse proportion in different contexts such as distance, rate, and time using appropriate strategies and tools.		M6NS-IIc-134
			finds the percentage or rate or percent in a given problem.	Week 3	M6NS-IId-142
			solves routine and non-routine problems involving finding the percentage, rate and base using appropriate strategies and tools.		M6NS-IId-143
			solves percent problems such as percent of increase/decrease (discounts, original price,	Week 4	M6NS-IIe-144

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			rate of discount, sale price, marked-up price), commission, sales tax, and simple interest.		
			describes the exponent and the base in a number expressed in exponential notation.	Week 5	M6NS-IIf-146
			gives the value of numbers expressed in exponential notation.		M6NS-IIf-147
			interprets and explains the Grouping, Exponent, Multiplication, Division, Addition, Subtraction (GEMDAS) rule.	Week 6	M6NS-IIf-148
			performs two or more different operations on whole numbers with or without exponents and grouping symbols.		M6NS-IIf-149
			describe the set of integers and identify real-life situations that make use of it.	Week 7	
			compares integers with other numbers such as whole numbers, fractions, and decimals.		M6NS-IIg-152
			compares and arranges integers on the number line.	Week 8	
			describes and interprets the basic operations on integers using materials such as algebra tiles, counters, chips, and cards.		M6NS-IIh-155
			performs the basic operations on integers.	Week 9	M6NS-IIi-156
			solves routine and non-routine problems involving basic operations of integers using appropriate strategies and tools.	Week 10	M6NS-IIj-157
Q3	demonstrates understanding of solid figures.	is able to construct and describe the different solid figures: cube, prism, pyramid, cylinder, cone, and sphere.	visualizes and describes the different solid figures: cube, prism, pyramid, cylinder, cone, and sphere using various concrete and pictorial models.	Week 1	
			differentiates solid figures from plane figures.		M6GE-IIIa-28
			identifies the faces of a solid figure.		M6GE-IIIb-30
	demonstrates understanding of	is able to apply knowledge of sequence,	formulates the rule in finding the **nth term** using different strategies (looking for a	Week 2	M6AL-IIId-7

| Quarter | Content Standards
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| | sequence in forming rules, expressions and equations. | expressions, and equations in mathematical problems and real-life situations. | pattern, guessing and checking, working backwards)
e.g. 4,7,13,16,…n   (the nth term is 3n+1) | | |
| | | | differentiates expression from equation. | | M6AL-IIId-15 |
| | | | gives the translation of real-life verbal expressions and equations into letters or symbols and vice versa. | Week 3 | M6AL-IIIe-16 |
| | | | defines a variable in an algebraic expression and equation. | | M6AL-IIIe-17 |
| | | | represents quantities in real-life situations using algebraic expressions and equations. | Week 4 | M6AL-IIIe-18 |
| | | | solves routine and non-routine problems involving different types of numerical expressions and equations such as 7+ 9 =___ + 6. | | M6AL-IIIf-19 |
| | demonstrates understanding of rate and speed, and of area and surface area of plane and solid/space figures. | is able to apply knowledge of speed, area, and surface area of plane and solid/space figures in mathematical problems and real-life situations | calculates speed, distance, and time. | Week 5 | M6ME-IIIg-17 |
| | | | solves problems involving average rate and speed. | | M6ME-IIIg-18 |
| | | | finds the area of composite figures formed by any two or more of the following: triangle, square, rectangle, circle, and semi-circle. | Week 6 | M6ME-IIIh-89 |
| | | | solves routine and non-routine problems involving area of composite figures formed by any two or more of the following: triangle, square, rectangle, circle, and semi-circle. | | M6ME-IIIh-90 |
| | | | visualizes and describes surface area and names the unit of measure used for measuring the surface area of solid/space figures. | Week 7 | M6ME-IIIi-91 |
| | | | finds the surface area of cubes, prisms, pyramids, cylinders, cones, and spheres. | Week 8 | M6ME-IIIi-93 |
| | | | solves word problems involving measurement of surface area. | Week 9 | M6ME-IIIj-94 |

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Q4	demonstrates understanding of volume of solid figures and meter reading.	is able to apply knowledge of volume of solid figures and meter reading in mathematical problems and real-life situations.	determines the relationship of the volume between a rectangular prism and a pyramid; a cylinder and a cone; and a cylinder and sphere.	Week 1	M6ME-IVa-95
			finds the volume of cylinders, pyramids, cones, and spheres.	Week 2	M6ME-IVb-97
			solves routine and non-routine problems involving volumes of solids.		M6ME-IVc-98
			reads and interprets electric and water meter readings.	Week 3	M6ME-IVd-100
			solves routine and non-routine problems involving electric and water consumption.		M6ME-IVd-101
	demonstrates understanding of pie graphs and experimental probability.	is able to create and interpret representations of data (tables and pie graphs) and apply experimental probability in mathematical problems and real-life situations.	constructs a pie graph based on a given set of data and interpret it.	Week 4	
			solves routine and non-routine problems using data presented in a pie graph.	Week 5	M6SP-IVf-4.6
			describes the meaning of probability such as 50% chance of rain and one in a million chance of winning.	Week 6	M6SP-IVg-19
			performs experiments and records outcomes.		M6SP-IVh-21
			makes listings and diagrams of outcomes and tells the number of favorable outcomes and chances using these listings and diagrams.	Week 7	M6SP-IVi-22
			makes simple predictions of events based on the results of experiments.	Week 8	M6SP-IVi-23
			solves routine and non-routine problems involving experimental and theoretical probability.	Week 9	M6SP-IVj-24