

MATHEMATICS YEARLY PLAN (YEAR SIX)

WEEK	TOPIC/LEARNING AREAS	LEARNING OBJECTIVES	LEARNING OUTCOMES	REMARKS
	1 1.1 Numbers up to seven digits	1.1.1 Develop number sense up to seven digits	i. name and write numbers up to seven digits ii. determine the place value of the digits in any number of up to seven digits iii. express whole numbers in a. decimals b. fractions of a million and vice versa. iv. compare number values up to seven digits. v. round off numbers to the nearest tens, hundreds, thousand, ten thousands, hundred thousands, and millions.	
	1.2 Basic operations with numbers up to seven digits.	1.2.1 Add, subtract, multiply and divide numbers involving numbers up to seven digits.	i. add two to five numbers to 9 999 999 ii. subtract a. one number from a bigger number less than 10 000 000 b. successively from a bigger number less than 10 000 000 iii. multiply up to six digit numbers with a. a one digit number b. a two digit number c. 10, 100 and 1000 iv. divide numbers of up to seven digit by a. a one digit number b. 10, 100 and 1000 c. a two digit number v. solve a. addition, b. subtraction, c. multiplication, d. division problems involving number up to seven digits.	

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	1.3 Mixed operations with numbers up to seven digits.	1.3.1 Perform mixed operations with whole numbers.	<ul style="list-style-type: none"> i. compute mixed operations problems involving addition and multiplication. ii. compute mixed operations problems involving subtraction and division. iii. compute mixed operations problems involving brackets iv. solve problems involving mixed operations on numbers up to seven digits. 	
2	FRACTIONS			
2.1	Addition of fractions.	2.1.1 Add three mixed numbers with denominators of up to 10	<ul style="list-style-type: none"> i. Add three mixed numbers with the same denominators of up to 10 ii Add three mixed numbers with difference denominators of up to 10 iv. Solve problems involving addition of mixed numbers 	
2.2	Subtraction of fractions	2.2.1 Subtract mixed numbers with denominators of up to 10	<ul style="list-style-type: none"> i. Subtract involving three mixed numbers with the same denominators of up to 10 ii. Subtract involving three mixed numbers with the different denominators of up to 10 iii. Solve problems involving subtraction of mixed numbers 	
2.3	Multiplications of Fractions	2.3.1 Multiply any mixed numbers with a whole numbers up to 1000	<ul style="list-style-type: none"> i. Multiply mixed numbers with a whole number 	
2.4	Division of Fractions	2.4.1 Divide fractions with a whole number and a fraction	<ul style="list-style-type: none"> i Divide fractions with <ul style="list-style-type: none"> a) a whole number b) a fraction ii. Divide mixed numbers with <ul style="list-style-type: none"> a) a whole number b) a fraction 	

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	3.. DECIMALS 3.1 Mixed Operations With Decimals	3.1.1 Perform mixed operations of addition and subtraction of decimals of up to 3 decimal point	i. Add and subtract three to four decimal of up to 3 decimal places, involving a) decimal numbers only b) whole numbers and decimal numbers	
	4 PERCENTAGE 4.1 Relationship Between percentage, fraction and decimal.	4.1.1 Relate fractions and decimals to percentage	i. Convert mixed numbers to percentage ii. Convert decimal numbers of value more 1 to percentage iii. Find the value for a given percentage of a quantity. iv. Solve problems in real context involving relationships between percentage, fractions and decimals.	
	5 MONEY 5.1 Money up to RM 10 million	5.1.1 Use and apply number sense in real context involving money.	i. Perform mixed operations with money up to a value of RM 10 million. ii. Solve problems in real context involving computation of money.	
	6 TIME 6.1 Duration	6.1.1 Use and apply knowledge of time to find the duration.	i. Calculate the duration of an event in between a) months b) years c) dates ii. Compute time period from situations expressed in fractions of duration. iii. Solve problem in real context involving computation of time duration	

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	7 7.1 Computation of Length	7.1.1 Use and apply fractional computation to problems involving length	<ul style="list-style-type: none"> i. Compute length from a situation expressed in fraction. ii. Solve problem in real context involving computation of length 	
	8 8.1 Computation of Mass	8.1.1 Use and apply fractional computation to problems involving mass	<ul style="list-style-type: none"> i. Compute mass from situations expressed in fractions of duration. ii. Solve problem in real context involving of mass 	
	9 9.1 Computation of Volume of Liquid.	9.1.1 Use and apply fractional computation to problems involving volume of liquid.	<ul style="list-style-type: none"> i. Compute volume of liquid from situations expressed in fractions of duration. ii. Solve problem in real context involving computation volume of liquid from situations 	

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	10 SHAPE AND SPACE			
	10.1 Two-Dimensional Shape	10.1.1 Find the perimeter and area of composite two-dimensional shapes.	<ul style="list-style-type: none"> i. Find the perimeter of a two-dimensional composite shape of two or more quadrilaterals and triangles. ii. Find the area of a two-dimensional composite shape of two or more quadrilaterals and triangles. iii. Solve problem in real contexts involving calculation of perimeter and area of two-dimensional shapes. 	
	10.2 Three-Dimensional Shapes	10.2.1 Find the surface area and volume of composite three dimensional shapes.	<ul style="list-style-type: none"> i. Find the surface area of a three dimensional composite of two or more cubes and cuboids. ii. Find volume of a three dimensional composite of two or more cubes and cuboids. iii. Solve problem in real contexts involving calculation of surface area and volume of three-dimensional shapes. 	
	11 DATA HANDLING			
	11.1 Average	11.1.1 Understand and compute average.	<ul style="list-style-type: none"> i. Calculate the average of up to five numbers. ii. Solve problem in real contexts involving average. 	
	11.2 Organizing and Interpreting Data	11.2.1 Organise and interpret data from tables and charts	<ul style="list-style-type: none"> i. Construct a pie chart from a given set of data. ii. Determine the frequency, mode, range, average, maximum and minimum value from a pie chart. 	