MATHEMATICS YEAR THREE			
WEEK	**TOPIC/LEARNING AREAS**	**LEARNING OBJECTIVES / LEARNING OUTCOMES**	**REMARKS**
	1. WHOLE NUMBERS **1.1 Numbers to 10 000**	**1.1.1 Say and use the number names in familiar contexts** i. Say the number names to 10 000. ii. Recognise numerals to 10 000. iii. Count up to 10 000 objects by grouping them involving up to 4 - digit numbers	
		1.1.2 Read and write numbers to 10 000. i. Write numerals to 10 000. ii. Read number words to 10 000. iii. Write number words to 10 000.	
		1.1.3 Know what each digit in a number represents. i. Recognise the place value of numbers.	

		1.1.4 Understand and use the vocabulary of comparing
		 and arranging numbers or quantities to 10 000.
		 i. Arrange numbers to 10 000 :
		   a. Count on and count back in ones.
		   b. Count on and count back in twos.
		   c. Count on and count back in fives.
		   d. Count on and count back in tens.
		   e. Count on and count back in hundreds.
		   f . Count on and count back in thousands
		 ii. Compare two numbers and say which is more or less.
		 iii. Position the numbers on a number line.	

		1.1.5 Understand and use the vocabulary of **estimanation and approximation** i. Extimate quantities of objects up to 10 000. ii. Round whole numbers less than 10 000 to the nearest 10	
	1.2 Addition With The **Highest Total Of** **10 000**	**1.2.1 Understand addition as combining two groups** **of objects** i. Add up to three numbers without regrouping involving up to 4 - digit numbers ii. Add two numbers up to 4 - digit , with regrouping : iii. Add three numbers up to 4 - digit , with regrouping :	
	1.2 Addition With The **Highest Total Of 10 000**	**1.2.2 Use and apply knowledge of addition in real life.** i. Solve problems involving addition in real life situations	
	1.3 Subtraction Within **The Range of 10 000**	**1.3.1 Understand subtraction as "take away" or "** **difference" between two groups of objects.** i. Subtract two numbers up to 4 - digit, without regrouping : ii. Subtract two numbers up to 4 - digit, with regrouping : iii. Subtract three numbers up to 4 - digit , without regrouping : iv. Subtract three numbers up to 4 - digit, with regrouping.	
		1.3.2 Use and apply knowledge of subtraction in real life i. Recognise subtraction as the inverse of addition. ii. Solve problems involving subtraction in real life situations	
	1.4 Multiplication within **6, 7, 8 and 9 time-tables**	**1.4.1 Understand multiplication as repeated addition.** **(6, 7, 8 and 9 times-tables)** i. Recognise multiplication as repeated addition. ii. Write number sentences for multiplication. iii. Build up the multiplication tables of 6, 7, 8 and 9. iv. Multiply two 1-digit numbers.	
		1.4.2 Know by heart the multiplication tables of **6,7,8 and 9** i. Recall rapidly the multiplication tables of 6, 7, 8 and 9.	
		1.4.3 Use and apply knowledge of multiplication **in real life** i. Find the unknown numbers in number sentences. ii. Solve problems involving multiplication in real life situations	

	1.5 Multiplication with the highest product of 100	**1.5.1 Understand and use the operation of multiplication** i. Multiply 2 - digit numbers by 1 - digit numbers without regrouping ii. Multiply 2 - digit numbers by 10. iii. Multiply 2 - digit numbers by 1 -digit numbers, with regrouping iv. Multiply 3 - digit numbers by 1 digit numbers, without regrouping v. Multiply 3 -digit numbers by 1 -digit numbers, with regrouping. vi. Solve problems involving multiplication in real life situations.	
	1.6 Division within 6, 7, 8 and 9 Times-Tables	**1.6.1 Understand division as sharing equally or grouping.** **(Corresponding to 6, 7, 8 and 9 times-tables)** i. Recognise division as sharing equally. ii. Recognise division as grouping. iii. Write number sentences for division. iv. Divide numbers within the multiplication tables.	
		1.6.2 Derive quickly division facts of 6, 7, 8 and 9 times tables i. Derive quickly division facts of 6, 7, 8 and 9 times-tables	
	1.7 Division with the highest dividend of 1 000.	i. Divide 2 - digit numbers by 1 - digit numbers without remainders ii. Divide 2 - digit numbers by 10 without remainders. iii. Divide 2 - digit numbers by 1 -digit numbers . with remainders. iv. Divide 2- digit numbers by 10 with remainders. v. Divide 3 -digit numbers by 1 -digit numbers without remainders. vi. Divide 3 -digit numbers by 1 -digit numbers with remainders. vii. Solve problems involving division in real life situations	
	2. FRACTIONS	**2.1 Understand and use vocabulary related to fractions.** i. Recognise one whole , one half, one quarter and three quarters ii. Say fractions, parts,one whole,one half,one quarter and three quarters in context. iii. Read fraction,parts,one whole,one half,one quarter and three quarters in context. iv. Write 1/2, 1/4 and 3/4 in context. v. Recognise 2/4=1/2 and 4/4 = 1. vi. Recognise fractions as equal shares of a whole set.	

	3. MONEY TO RM100	**3.1 Understand and use the vocabulary related to money.**
		i. Represent the value of money in RM and sen.
		ii. Exchange:
		  a. Coins up to RM 10 ; and
		  b. Notes up to RM 100.
		iii. Convert ringgit to sen and vise versa.	

		3.2 Use and apply knowledge of money in real life. i. Add money up to RM 100. ii. Subtract money up to RM 100. iii. Multiply money to the highest product of RM 100. iv. Divide money with dividend not more than RM 100. v. Solve problems involving money in real life situations.	

	4. TIME	**4.1 Understand, read and write vocabulary related to time.** i. Read time to the half or quarter hour on a clock. ii. Write the time to the half and quarter hour. iii. Read sime timetables	
		4.2 Add, subtract, multiply and divide units of time. i. Add units of time in : a. Hours ; and b. Minutes. ii. Subtract units of time in : a. Hours; and b. Minutes. iii. Multiply units of time in : a. Hours; and b. Minutes. iv. Divide units of time in : a. Hours; and b. Minutes.	
		4.3 Use and apply knowledge of time in real life. i. Solve problems involving time in real life situations.	
	5. LENGTHS.	**5.1 Measure and compare lengths using standard units.** i. Read scales to the nearest division. ii. Measure and record lengths of objects using standard units. a. Metres ; and b. Centimetres. iii. Compare the lengths of two objects using standard units. a. Metres ; and b. Centimetres. iv. Estimate the lengths of the objects in : a. Metres ; and b. Centimetres.	
		5.2 Understand the relationship between units of length. i. Know and use the relationship between metres and centimetres	
		5.3 Add, subtract, multiply and divide units of length. i. Add units of length in : a. Metres ; and b. Centimetres. ii. Subtract units of length in : a. Metres ; and b. Centimetres. iii. Multiply units of length in : a. Metres ; and b. Centimetres. iv. Divide units of length in : a. Metres ; and b. Centimetres.	
		5.4 Use and apply knowledge of length in real life. i. Solve problems involving length in real life situations.	

	6. Mass	**6.1 Measure and compare masses using standard units.** i. Read scales to the nearest division. ii. Measure and record masses of objects using the standard units. a. Kilograms ; and b. Grams iii. Compare the masses of two objects using standard units. a. Kilograms ; and b. Grams iv. Estimate the masses of the objects in : a. Kilograms ; and b. Grams	
		6.2 Understand the relationship between units of mass. i. Know and use the relationship between kilograms and grams.	
		6.3 Add, subtract, multiply and divide units of mass . i. Add units of mass in : a. Kilograms ; and b. Grams ii. Subtract units of mass in : a. Kilograms ; and b. Grams iii. Multiply units of mass in : a. Kilograms ; and b. Grams iv. Divide units of mass in : a. Kilograms ; and b. Grams	
		6.4 Use and apply knowledge of mass in real life. i. Solve problems involving mass in real life situations.	
	7. Volume of liquid.	**7.1 Measure and compare volumes of liquid using standard units.** i. Read scales to the nearest division. ii. Measure and record volumes of liquid of objects using the standard units. a. Litres; and b. Millilitres iii. Compare the volumes of liquid of two objects using standard units. a. Litres; and b. Millilitres iv. Estimate the volumes of liquid of the objects in : a. Litres; and b. Millilitres	

		7.2 Understand the relationship between units of volumes of liquid. i. Know and use the relationship between litres and millilitres.	
		7.3 Add, subtract, multiply and divide units of of volumes of liquid. i. Add units of volumes of liquid in : a. Litres; and b. Millilitres ii. Subtract units of volumes of liquid in : a. Litres; and b. Millilitres iii. Multiply units of volumes of liquid in : a. Litres; and b. Millilitres iv. Divide units of volumes of liquid in : a. Litres; and b. Millilitres	
		7.4 Use and apply knowledge of volumes of liquid in real life. i. Solve problems involving volumes of liquid in real life situations. in real life situations.	

	8. Shape and Space	8.1 Understand and use the vocabulary related to 3-D shapes. i. Indentify various types of prisms. ii. Label parts of prisms. 8.2 Descripe and classify 3-D shapes. i. Describe features of prisms. ii. Compare prisms and non-prisms. 8.3 Build 3-D shapes. i. Build 3-D shapes using suitable materials. ii. Build 3-D shapes from given nets. iii. Identify simple nets of 3-D shapes. Understand and use the vocabulary related to 2-D shapes. i. Identify shapes of semicircles and regular polygons.	
	Two-dimensional shapes.	2. Descibe and classify 2-D shapes. i. Describe features of two-dimensional shapes: a. Semi-circles; and b. Regular polygons. ii. Compare and sort polygons and non-polygons.	
	Symmetry.	1. Recognise and sketch lines of symmetry. i. Recognise lines of symmetry: a. In the environment; and b. In two-dimensional shapes. ii. Sketch lines of symmetry.	
	9. Data handling. Collecting and organising	1. Collect and organise data. i. Collect data based on given situations. ii. Sort and classify data. iii. Organise data in a table.	

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