MATHEMATICS SCHEMEE OF WORK
STANDARD 7, 2020

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TERM 1

WEEK	LESSON	TOPIC/SUB TOPIC	OBJECTIVES	T/L ACTIVITIES	T/L AIDS	REFERENCE	REM
1	**1 - 7**	**Opening and Revisions**					
2 & 3	1 - 7 1 - 7	NUMBERS Whole numbers Place value and total value. Reading and writing. Square and square roots Divisibility test for 11	The learner should be able to: Identify place and total values. Read and write numbers in symbols and in words. Work out square of numbers and square root of square numbers. Determine numbers divisible by eleven.	Identifying and working out place value and total value of numbers. Read and write numbers in symbols and in words. Work out square and square roots of numbers. Determine and recite the divisibility test for 11	Chalk board illustration. Chart Pupils book	Improve your math pg 1 - 8 Understanding math pg 1 - 8 Teachers guide pg 43 - 45	
4	1 - 7	Revision and end month exams					
5	1 - 7	FRACTIONS Squares of fractions	The learner should be able to: Work out squares and square roots of fractions.	Work out squares of fractions. Work out square roots of fractions	Chart Chalkboard illustration.	Improve your math pg 10 - 11	

		Square roots of fractions involving perfect squares		involving perfect squares.		Understanding math pg 10 - 14 Teachers guide pg 46 - 47	
6	1 - 7	DECIMALS Place value and total value. Conversations.	The learner should be able to: Identify place and total values of digits in decimals Convert non recurring decimals to fractions. Convert fractions to decimals involving non recurring and recurring decimals. Work out square and square roots of decimals.	Work out place and total values of decimals. Convert non recurring decimals to fractions. Convert recurring and non recurring decimals to fractions. Work out square and square roots of decimals.	Chart Pupils book	Improve your math pg 12 - 19 Understanding math pg 15 - 22 Teachers guide pg 48 - 51	
7	Mid Term 1 Exams						
8	1 - 7	PERCENTAGE Conversion of percentages into fractions and vice versa	The learner should be able to: Convert percentages to fractions and fractions to percentages. Convert decimals to percentage and vice versa.	Convert percentages to fractions and fractions to percentages. Convert decimals to percentages	Chart Chalkboard Illustration.	Improve your mathematics pg 20 - 22 Understanding math pg 25 - 28	

		Conversion of decimals.		and percentages to decimals. Discussion Explanation.		Teachers guide pg 49 - 54	
9	1 - 7	OPERATIONS Addition, subtraction and multiplication involving whole numbers. Division involving whole numbers. Combined operation in whole numbers Number sequence.	The learner should be able to: Add, subtract and multiply whole numbers. Divide whole numbers by up ti 3 digit numbers. Work out problems involving combined operations in whole numbers. Recognize and identify number sequence involving whole numbers.	Adding, subtracting and multiplying odd numbers. Dividing whole numbers. Work out problems on combined operations in whole numbers. Recognize and identify number sequence involving whole numbers.	Improve your math pg 23 - 31 Understanding math pg 29 - 45 Teachers guide book pg 55 - 59	Chalk board illustration.	
9	1 - 7	FRACTION Addition and subtraction. Multiplication and division Combined operation.	Be able to: Work out addition, subtraction, division and multiplication involving fractions. Work out problems involving combined operations in fractions.	Adding, subtracting, multiplying and dividing fractions. Work out problems on	Cut outs Chalk board illustration.	Improve your math pg 33 - 43 Understandin g math pg 46 - 50	

		Number sequence.	Recognize and identify number sequence involving fractions.	combined operations in fractions. Recognize and identify number sequence involving		Teachers guide pg 60 - 64	

				fractions.			
11	1 - 7	DECIMALS Basic operations involving decimals. Combined operations In decimals.	Be able to: Work out problems involving decimals using the four basic operations that is: Addition, subtraction, multiplication and division. Work out problems involving combined operations in decimals.	Adding, subtracting, dividing and multiplying decimals. Work out problems involving combined operations in decimals.	Chart	Improve your math pg 45 - 49 Understanding math pg 51 - 58 Teachers guide pg 65 - 67	

12	1 - 7	DECIMALS	Place value Total value Converting decimals to fractions and vice versa.	The learner should be able to; Identify the place and total values of digits in decimals. Convert non recurring decimals to fractions.	Work out place and total values of decimals Convert decimals to fractions.	Improve your math pg 12 - 19 Understanding math pg 15 - 22	A chart Cut outs	

			Square roots and square of decimals.	Convert fractions to decimals involving non recurring and recurring decimals. Work out square and square roots of decimals	Convert fractions to decimals. Work out squares and square roots of decimals.			
13	Revisions and Preparations for End Term 1 Exams							
14	End Term 1 Exams and Closing							

TERM 2

WK	LSN	TOPIC	SUB TOPIC	OBJECTIVES	T/L ACTIVITIES	REFERENCE	T/L AIDS	REM
1	**Opening and Revisions**							
2	1 - 7	PERCENTAGES	Conversion of percentages to fractions and vice versa. Conversion of decimals to percentages and vice versa.	The learner should be able to: Convert percentages to fractions and vice versa. Convert decimals to percentages and percentages to decimals.	Convert percentages to fractions and vice versa. Convert decimals to percentages and vice versa.	Improve your math pg 20 - 21 Understanding math pg 25 - 27	A chart of conversions.	
3	1 - 7	FRACTIONS	Addition and subtraction. Multiplication and division.	Be able to: Work out addition, subtraction, multiplication	Adding and subtracting fractions.	Improve your math pg 33 - 43	A chart Cut outs	

			Combined operation in fractions. Number sequence.	and division involving fractions. Work out problems involving combined operations in fractions. Recognize and identify number sequence involving fractions. Solve statement questions involving fractions.	Multiplying and dividing fractions. Work out combined operations in fractions using BODMAS. Work out number sequence. Solve statement questions related to fractions.	Understanding math pg 46 - 50		
4	1 - 7	DECIMAL	Addition and subtraction Multiplication and division of decimals. Combined operations in decimals. Number sequence Statement questions.	Work out problems involving decimals using addition, subtraction, multiplication and division. Work out problems involving combined operations in decimals. Work out questions on number sequence involving decimals. Work out statement questions in decimals	Adding and subtracting decimals. Multiplying and dividing decimals. Work out combined operations in decimals. Work out Number sequence.	Improve your math pg 45 - 49 Understanding math pg 56 - 58	A chart	

					Solve statement questions on decimals			
5	1 - 7	PERCENTAGES	Percentage increase and decrease.	Be able to: Work out problems involving percentage increase and decrease. Work out questions involving application of percentage increase and decrease.	Solve problems involving percentage increase and decrease. Work out questions involving application of percentage increase and decrease.	Understanding math pg 60 - 63 Improve your mathematics pg 51 - 52		
6	1 - 7 1 - 7	Measurement Length	Identify units of length. Convert units of length Perimeter of a circle, triangle and a quadrilateral. Problems involving units of length in real life	The learner should be able to: Recognize and identify decimeter(dm)decameter(Dm) and hectometer(Hm) as units of measurements. Convert units of length from one to another. Work out perimeter involving circles, triangles and quadrilaterals.	Identify dm, Dm and hm as units of measuring length. Converting units of length from one to another. Work out perimeter of Circles,	Understanding math pg 72 - 83 Improve your math pg 54 - 61	Cut outs of shapes charts	

				Work out problems involving Units of length in real life. Work out problems on open and closed fences.	triangles, quadrilaterals. Work out problems involving units of length in real life. Work out problems on open and closed fence.			
7	Mid term exam and break							
8&9	1 - 7	Measurement Length	Identify units of length. Convert units of length Perimeter of a circle, triangle and a quadrilateral. Problems involving units of length in real life	The learner should be able to: Recognize and identify decimeter(dm)decameter(Dm) and hectometer(Hm) as units of measurements. Convert units of length from one to another. Work out perimeter involving circles, triangles and quadrilaterals. Work out problems involving Units of length in real life. Work out problems on open and closed fences.	Identify dm, Dm and hm as units of measuring length. Converting units of length from one to another. Work out perimeter of Circles, triangles, quadrilaterals.	Understanding math pg 72 - 83 Improve your math pg 54 - 61	Cut outs of shapes charts	

					Work out problems involving units of length in real life. Work out problems on open and closed fence.			
10 & 11	1 - 7 1 - 7	AREA	Areas of circle, trapezium, parallelogram, boarders, combined shapes. S.A of cuboids, cubes and cylinders.	The learner should be able to: Calculate the area of a circle. Work out problems involving areas of circles. Calculate the areas of trapeziums and parallelogram. Work out problems involving areas of boarders and combined shapes. Calculate the surface areas of cubes, cuboids and cylinders.	Work out areas of circles practically. Work out problems involving area of circles using formulae. Work out area of trapezium and parallelograms practically. Work out area of combined shapes and boarders.	Understanding math pg 85 - 97 Improve your math pg 62 - 74	Cut outs of shapes charts	

					Work out SA of cubes, cuboids and cylinders practically			
12 -13	Revisions and Preparations for End Term Exams							
14	End Term 11 Exams and Closing							

TERM 3

WK	LSN	TOPIC	Sub topic	OBJECTIVE	T/L ACTIVITY	REFERENCE	T/L AIDS	REM
1	**1 - 7**	**Opening and revision**						
2	1 - 7	Tables and graphs.	Linear scale Table involving real life situation. Drawing graphs. Reading and interpreting graphs, Arithmetic mean and mode.	The learner should be able to: Determine an appropriate scale for graph. Read and interpret tables in real life situations. Represent data on bar graphs, pie charts, travel graphs and line graphs.	Determine appropriate scale for graphs. Interpreting tables. Represent data on bar graphs. Work out problems involving mean and mode.	Progressive math pg 146 - 160 Understanding math pg 215 - 231 Learning math pg 134 - 150	A chart Chalk board illustration.	

				Work out problems involving mean and mode.				
3	1 - 7	Scale drawing	Linear scale ratio form. Conversion of scale from one form to another. Making scale drawing.	Should be able to: Read and write linear scale in ratio form. Convert linear scale from statement to ration form and vice versa. Work out problems involving scale drawing.	Read ratio form Chalk board illustration. Convert linear to statement scales. Convert statement to ratio form and vice versa	Understanding math pg 251 - 256 Progressive math pg 142 - 143 Learning math pg 151 - 156	Meter rule Oranges Bananas. Objects of different colors.	
4	1 - 7	Ratio and proportion	Ratio as a fraction Increasing and decreasing ratios.	Should be able to: Identify ratio as a fraction. Interpret ratio in sharing. Work out problems involving ratio using unitary methods	Interpret ratio Work out problems involving ratio. Increasing quantities of ratio. Decreasing	Progressive math pg 102 - 106 Learning math pg 157 - 164 Understanding	Chalk board illustration chart	

				Interpret and use ratio in increasing and decreasing quantities.	Quantities of ratio.	Math pg 237 - 246		
5	1 - 7	Revision measurement	Time, speed and temperature.	Should be able to: Work out problems involving time, speed,	Work out examples on	Understanding math pg 170 - 181	Chalk board illustration. thermometer	

				distance and average speed. Work out problems involving temperature in degrees Celsius.	time, speed and distance. Discuss and explain working out questions on temperature in degrees Celsius. Doing exercise	Learning math pg 101 - 107 Thorough homework pg 213.		
6	1 - 7	Geometry	Quadrilaterals Angles Models Patterns	Should be able to: Recognize and identify angle properties of parallel lines and quadrilaterals. Work out problems involving angle properties of parallel lines. Construct right angle, isosceles and equilateral triangles using a ruler and a pair of compasses. Construct circles passing over vertices of a triangle.	Construct parallel lines. Perpendicular bisector of lines. Work out problems involving angle properties of parallel lines. Angle properties of square, rhombuses and parallelograms. Pythagorean theory. Nets of cubes,	Geometrical set Meter rule Cuboids Cube. Chalk board illustration.	Understanding math pg 184 - 197 Learning math pg 110 - 122 Thorough homework pg 58 - 63	
				Make cubes and cuboids.	Cuboids and cylinders. Making patterns			

7	1 - 7	Postal charges	Postal charges Telegrams Money orders Postal orders	Work out problems involving inland and international postal charges Identify money orders and postal orders. Work out problems involving telegrams.	Inland and international charges. Money and postal orders Write telegrams.	Stamps Chalk board illustrations Notes/coins	Understanding math pg 132 - 139 Thorough homework pg 150 - 171	
8	1 - 7	Money	Discount Commission Simple interest Hire purchase bills	Should be able to: Work out problems involving discounts and percentage discounts. Work out problems involving commission and percentage commission. Work out problems involving simple interest and hire purchase. Work out problems involving bills in buying and selling.	Discount and percentage discount. Work out commission and percentage commission. Work out simple interest and hire purchase Prepare bills.	Understanding math pg 117 Thorough homework pg 134 - 137 Learning math pg 81 - 91	Notes Coins Chalkboard illustration.	
	1 - 7	Algebra	Expressions Equations Inequality	Be able to: Form and simplify algebraic expressions	Explain the plot/ frame. Work out algebraic			

				Work out the value of algebraic expression. Form and solve expressions in one unknown. Simplify inequalities in one unknown.	Expressions. Simplify inequalities in one unknown. Do an exercise.	Understanding math pg 207 - 216 Learning math pg 164 - 182	Chalk board illustration chart	
9	1 - 7	End term year exams and closing						