P.6 MATHS SCHEME OF WORK TERM I 2023 **#CREATIVE PRINTER 0703745068**

Week	Pd	Theme	Topic	Content	Life skills	Competences		Sug. Act.	L/material	Methods	Res.	Rem.
						Subject	**Language**					
1		NUMERACY	Fractions	- Addition of fractions. - Subtraction of fractions - Word problems on Addition & subtraction of fractions.	- Effective communication	The learner: - adds fractions - subtracts fractions	The learner: reads and uses the words fraction, add, subtraction	- adding fraction. - Subtracting fraction.	- chalkboard - illustrations - real objects e.g fruits, bread, papers.	Demonstration Discussion Guided discovery	Supl. MTC pg. 34 – 43, Understanding MTC Bk 6 pg. 77 - 91 - Mk Bk 6. pg 106 - 122	
				Multiplication of fractions - by whole numbers and vice versa. - fraction by fraction - word problems.		Multiplies fractions	The learner: reads and uses the words multiplication, fraction,	- Revising multiplication tables, - Multiplying fractions				
			Fractions	Division of fractions. - by whole number and vice versa. - fraction by fraction - word problems		Divides fraction	The learner: reads and uses the words division,fraction	Dividing fractions.				

		NUMERACY	Fractions	Mixed operations on fractions. -Application of fractions in real life situations. -Place values of decimals -operations on decimals * Addition/ subtract * Multiplication * Division * Mixed operations * word problems	- Effective communication - problem solving.	- applies "BODMAS" - applies fractions in real life situations - finds place values and values of digits in decimals - carries out operations on decimals	The learner: reads and uses the words mixed operations, brackets, BODMAS,decimal names, word problems involving decimals and vulgar fractions	- Applying the knowledge of BODMAS - Solving problem in real life. - Identifying place values of decimals - carrying out operations	- chalkboard - illustrations - real objects e.g fruits, bread, papers.	Demonstration Discussion Guided discovery	Math Aid std 8 pg 27 - 49	
			Fractions	- Rounding off decimals * review of rounding off to nearest tenth, hundredth & thousandth.		- Reads and uses vocabulary on fractions - round off decimals	The learner: Uses and reads the words rounding off,tenth, hundredth, thousandth in sentences.	- Rounding off decimals				
			Fractions	- Ratios and proportion * expressing rations as fractions & vice verse * sharing using ratios. * Increasing & decreasing using ratios. * finding the ratio of increase or decrease. * application of ratios.		- Identifies the relationship between ratios & proportions	The learner: Uses and reads the words ratio, proportion, sharing in ratios, increasing and decreasing using ratios, in sentences.	- solving problems involving ratio & proportions	- chalkboard - illustrations	Demonstration Discussion	Supl MTC pg 125 – 126, Mk Bk 6 pg 124 - 138	
				Proportion * direct proportion * inverse (indirect) * constant		Identifies the relationship btn ratios & proportions						

		NUMERACY	Fractions	- Percentages. %age as fractions and vise verse. % ages as decimals and vise versa %ages as ratios and vise versa. expressing quantities as % ages finding %age parts. %age values. word problems on % age values. application of % age values. Ordering fractions & decimals using % ages.	- Effective communication	Identifies the relationship btn a common fraction and a percentage	The learner: reads and uses the words percentages, ordering, sentences	- converting fractions into %ages and Vice versa. - Solves problems involving &ages - Explaining the difference btn loss and profit	- chalkboard - illustrations - real objects e.g fruits, bread, papers.	Demonstration Discussion Guided discovery	Math Aid std 8 pg 27 – 49, Mk bk 6 pg 142 – 158.	
			Fractions	%age increase %age decrease. %age discount application of %age discount on shopping bills. %age profit & its application %age loss & its application Profit & loss combined.		- Solves problems involving percentages increase/decrease, discount, profit and loss	The learner: reads uses the words increasing/decreasing, discount, profit, loss in a sentence					

		NUMERACY	Fractions	- simple interest * finding simple interest * per month & per annum * finding amount * finding time * finding rate * finding the principal	-Problem solving - Effective communication	- solves problems involving interest - Explains the relationship between amount, time, rate and principal.	The learner: reads uses the words interest, annum, time, rate, and principal in a sentence.	- Solving problems involving interest.	Chalkboard illustrations	discussion	- Supl MTC pg 139 - 140	
		INTERPRETATION OF GRAPHS AND DATA	DATA HANDLING	- Collection of data. - Presentation of data in table * pictograms/ pictographs * pie chart * bar graphs * line graphs - Simple statistics * mode, median, mean, modal freq. * frequency, - probability		The learner; - Collects data - presents data in tables & pictures - Presents & in a pie chart - presents & interprets data in a line graph. - calculate simple statistics - Calculate probabilities of simple events. - reads & uses the following vocabularies correctly graph, data, pie – chart, line graph, scale, statistics probability, mean, median, mode & range.	The learner: Uses the words data, pictographs, pie charts, bar graph, mode, median, mean, frequency, probability in a sentence	- collecting data from different sources. - representing data in tabular form. - presenting data in pie charts & line graphs. - Calculating simple statistics. - calculating probabilities. - working out problems involving pie charts & line graphs.	- graph charts - real objects - chalkboard illustrations	Discussion Discovery	Supl. MTC pg 117, Pr. MTC Rev& Prac pg 99 – 107, 108, 112 Und. MTC bk 6 pg. pg 132 – 160, Mk MTC 6 pg. 163 - 190	

		MEASUREMENTS	MONEY	- Currencies of different countries. - Finding the amount & number of notes in a bundle. - Exchange rates. - Currency conversion * changing foreign * currency to Ug. * currency & vice versa	- Effective communication - interpersonal relationship	- Name currencies of different countries. - Finds number of notes & amount. - Converts Ug.currency to other currencies & vice versa - Reads & uses the following vocabularies correctly: excnage rate, shillings, dollars, pound, starling, Franks, Euros.	The learner: Read and uses the words currencies, bundles, exchange rate, forex in a sentence, dollar.shillings,pound starling, francs,	- Collecting various currencies. - Identifying the values of various currencies. - reading exchange rate from news papers. - Converting currencies.	- Bank of Uganda currency chart. - Currencies of other countries.	Discovery Discussion	Und. MTC pg 180 – 183 MK bk 7 pg 250 - 257	

			Distance, Time & speed	- Time *Changing hours to minutes & viseversa *Changing minutes to seconds & viseversa * Changing hrs to seconds & viseversa * 12 & 24 hr clocks * time duration - Distance - Speed * km/hr to metres per second * average speed. - travel graphs.	- Effective communication. - Decision making, problem solving	- converts time - Solves problems involving time. - applies formulae to find time, speed & distance. - Solving problems involving speed. -Interpretes a travel graph. - reads distance speed & time from travel graph. - plots distance time graphs.	The learner: reads uses the words distance, speed, time in a sentence	- changing time - reading and writing time - converting from 12 to 24 hr clock viseverse - applying formulae relating to dist, time & speed. - reading distance time from the graph. Drawing graphs.	-Wall clocks -charts graph books -Chalkboard -illustrations	Discussion Chalkboard Illustration Guilded discovery	Mk bk 6 pg 222 – 241, Sulp. MTC pg 132 – 134, Math Aid std 8 pg 120 – 122, Pr. MTC pg 24 – 26.	

END

P.6 MATHS SCHEME OF WORK TERM III

Week	Pd	Theme	Topic	Sub-topic	Competences		Content	Methods & techniques	Life skills & values	Suggested activities	T/L aids	Rf	Rm
					Subject	**Language**							
1	**1**	MEASUREMENTS	Length, Mass & Capacity	Circumference	The learners. - Solves problems involving circumference. - Applies the use of formulae for circumference in real life situation.	The learner: - reads and uses the following vocabularies correctly: circumference, pi, diameter, radius.	-Find circumference when diameter is given. -Radius is given. - Finding the diameter when circumference is given. - finding the radius when circumference is given.	Guided Discovery Discussion Demonstration	Creative thinking Effective communication Problem solving	-Measuring the length of a straight string. - Making a circle with the same string and measuring the circumference. -Comparing the length and circumference.	-Text books -Circular objects -Strings -Threads		
				Area	-Solves problems involving area of different figures. - Applies the use of formulae for area in real life situations.	-Reads and uses area, square units correctly. - Describes area correctly. -Constructs English sentences using area.	-Area of triangles i. Scalene ii. Triangles with different bases and heights. -Area of rectangle. Area of borders. -Area of parallelogram -Area of trapezium -Area of rhombus -Area of kite -T.S.A of a cube & cuboids.	Discussion Guided Discovery		-Practically using a small square to calculate the area of the figure.	-Textbooks -Boxes -Squares		

				Volume	-Solves problems involving volume. -Applies the use of formulae for volume in real life situations.	-reads and uses correctly. -Cubic units -Describes volume correctly -Constructs English sentences using the word volume.	-Volume of a cube. -Volume of a cuboid. -Finding height, width or length when volume is given. -Volume of triangular prism. -Packing cubes and cuboids in a big container.	-Discussion -Guided -Discovery		-Measuring -Comparing numbers of smaller containers packed in big container.			
			Length, Mass & Capacity	Capacity	-Solves problems involving capacity. -Applies the use of formulae for capacity in real life situations.	-reads and uses capacity, litres, cubic units. -Describes capacity correctly. -Constructs sentences using capacity.	-Conversion of units of capacity. -Relate the units of capacity to those of volume. -Finding capacity of cubes & cuboids. -Finding height, length or width when capacity is given. -Application of capacity.	-Guided discovery -Discussion -Demonstration	Creative thinking Effective communication Problem solving	-Using standard containers to find the capacity of a container. -Comparing the number of smaller containers poured in big containers.	Containers like bottles, cubes, tins, measuring cylinder, etc.		

		GEOMETRY	Lines, Angles & Geometrical figures.	Construction of angles.	-Constructs angles 30^{o}, 45^{o}, 60^{o} and 90^{o} and their supplements.	-Constructs correct English sentences using the word bisect, supplement, arc, etc.	-Construction of 60^{o} and 90^{o}. -Bisecting angles to get 30^{o} and 45^{o} and their supplements.	Guided discovery Demonstration		-Using geometric instruments to construct angles.	Geometric instruments.		

				Construction of polygons	Constructs polygons.	-Constructs correct English sentences using the word polygons, angles	-Construction of triangles, squares, rectangles, pentagon and Octagon and nonagon.	-Guided discovery	Critical thinking Effective communication Creative thinking	-Using geometric instruments to construct polygons.	Geometric instruments.		
				Construction of parallel & perpendicular lines.	-Constructs parallel and perpendicular lines. _Uses the symbols of parallel and perpendicular lines.	-Uses and reads the following vocabulary: perpendicular, parallel, arc, bisect, etc	-Construction of parallel and perpendicular lines and using corresponding symbols.	-Guided discovery -Discussion		-Using geometric instruments to construct parallel lines, perpendicular lines.	Geometric instruments.		

				Complementary & Supplementary angles	-Works out complementary and supplementary angles.	-Reads and uses the following vocabularies correctly: - Complementary and supplementary.	-Complementary angles -Supplementary angles -Angles in a triangle.	Discussion		-Naming complementary and supplementary angles. -Identifying supplementary and complementary angles.	Charts		

				Angles in parallel lines.	-Identifies angles found in parallel lines. -Solves angle problems in parallel lines.	-Reads and uses the following vocabularies correctly: -transversal lines, alternate angles, corresponding angles, Co-interior angles, vertically opposite.	-Vertically opposite angles -Co-interior angles -Corresponding angles -Alternate angles	-Guided discovery -Discussion	Critical thinking Effective communication Creative thinking	-Identifying angles formed on parallel lines. -Naming angles	Geometric instruments.		

				Quadrilaterals	-Identifies quadrilaterals and their classification.	-Reads and uses the following vocabularies: quadrilaterals.	Quadrilaterals and their properties.	-Guided discovery		-Using geometric instruments to construct parallel lines, perpendicular lines.	Geometric instruments.		
				Pythagoras' theorem.	-Applies Pythagoras' theorem to find the sides of a right-angled triangles.	-Reads and uses the words Pythagoras theorem	Pythagoras theorem and application.	-Guided discovery -Demonstration		-Constructing right-angled triangle. -Using small squares to derive the Pythagoras' theorem.	Geometric instruments.		

		NUMERACY	INTEGERS	Addition of integers.	-Adds integers -Plots integers.	-Reads and uses the vocabularies below: integers, positive, negative, additive inverse, forward, backward	-Addition of integers on a number line. -Addition of integers without a number line.	-Discussion	Critical thinking Effective communication Creative thinking	-Drawing a number line -Plotting on number line -Adding integers -Adding integers on number line and without number line.	Rulers Charts		

				Subtraction of integers.	-Subtracts integers -Plots integers	-Constructs sentences using the word integers.	-Subtraction of integers on a number line. -Addition of integers without a number line.	-Discussion		-Drawing a number line. -Subtracting integers with and without a number line.	Rulers Charts		
				Multiplication of integers.	-Multiplying integers.	-Reads and use the words. -Multiplication of integers.	-Multiplication of integers on a number line. -Multiplication of integers without a number line.	-Discussion -Guided discovery		-Drawing number line. -Plotting integers on number line.			
				Division of integers	Dividing integers.	-Reads and use the words division of integers.	-Division of integers on a number line. -Division of integers without a number line.	Discussion Guided discovery		Drawing and plotting integers on a number line.	Rulers Charts		
				Application of integers.	-Gives examples of where integers are applied in daily life.	Explains situations where integers can be applied.	Application of integers.	Discussion Demonstration		-Describing ways in which integers are used in daily life.	Rulers Charts		

		ALGEBRA	ALGEBRA	Forming algebraic	-Simplifying algebraic expressions.	-Reads and uses the words algebraic, algebra, expression, like terms.	-Algebraic expressions. -Collecting and simplifying like terms.	-Discussion Demonstration	-Critical thinking -Problem solving -Creative	-Identifying unknowns. -Identifying like terms. -Simplifying algebraic equations.	Real objects Chalkboards		

				Removing brackets.	Removes brackets and simplifies expressions.	Reads and uses the words: Brackets, expression, variables.	-Removing brackets -Simplifying expressions	-Discussion Demonstration		-Drawing a numberline. -Subtracting integers with and without a number line.	Chalkboards illustrations		
			Subtraction		-Substituting values for the unknown.	-Reads and use the words: substitute unknown value correctly.	Substitution	Discussion		-Substituting and finding values of expressions.	Chalkboards illustrations		
				Forming equations.	Forming equations -Solving equations	-Reads and use the words equation, solve inequality, etc.	-Forming equations -Solving equations involving all operations. -Solving fractional equations. -Solving inequalities.	Discussion		-Finding the value of unknown. -Finding like terms.	Chalkboards illustrations		