PRIMARY FOUR MATHEMATIC SCHEME OF WORK TERM TWO 2023

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MATHEMATICS

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SCHEME OF WORK FOR P.4 MATHEATICS TERM II

WK	PD	THEME	SUB THEME	CONTENT	SUBJECT COMPETECIES	LANGUAGE COMPETENCIES	METHODS	LIFE SKILL	T/L AIDS	T/L ACTS	REF
1	1	F R A C T I O N S	Revision	Fractions (Lower work) • Definition. • Shading / Naming fractions. • Writing fractions in words and figures. • Types of fractions.	• Defines fractions. • Shades the given fractions • Gives examples of fractions.	• Defines fractions. • Names the types of fractions.	• Explanation • Demonstration. • Guided discovery	• Effective communication. • Creativity.		Collecting objects. Shading Naming.	MK Bk.3 pg. 94 – 98. A new MK Bk 4 pg. 30 – 36 Sipro teacher's guide MTC bk 4 term two pg. 2-5

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1									• eal obj ect s e.g. ora nge s, app les pap ers.		
	2		Fraction s	• Equi valent fractions. • How to get equivalent. • Find ing missing parts of fractions.	• Multiples and dives. • Identifying simple equivalent fractions using diagrams	• Describ es and names equivalent fractions. • Writes equivalent fractions.	• Group discussion . • Questio n and answer.	• Problem solving. • Effectiv e communic ation. • Critical thinking.	• las h car ds.	Cutting Shading	MK prima ry MTC bk 4 pg 82 − 86 Sipro teach er's guide MTC bk 4 term two pg.
	3			• Red uce fractions	• Reduces fractions to lowest term.	• Reads and writes the given	• E xplan ation	• Problem solving. • Effectiv	• eal obj	• utt ing	Prim ry

			of at least one factor • Comparing Fractions. • Ordering simple fractions.	• Compares fractions.	fractions in words.	• Demonstration. • Guided discovery	• communication. • Critical thinking.	• harts showing fractions	.	MTC for Uganda pupils book 4 pg.58
4			**Writing mixed as proper fraction** • Changing improper fractions to mixed numbers.	• Change improper fractions to mixed fractions • Changes proper fractions to improper fractions	• Reads and writes the given fractions in words.	• Explanation • Demonstration. • Guided discovery	• Problem solving. • Effective communication. • Critical thinking.	• real objects e.g. oranges, apples papers.	Changing improper fractions to mixed numbers	Sipro teacher's guide MTC bk 4 term two pg. 6-7 and 8-10 Understanding MTC P.4 Pg.58-60

											• rouping Reading	New MK Bk 4 Pg. 87-97 Understanding MTC P.4 Pg. Sipro teacher's guide MTC bk 4 term two pg. 16-17
2	1	F R A C T	Operations on fractions	**Subtraction of fractions** • With same denominators. • With same denominators in word problems.	• Subtracts fractions with same denominators. • Solves word problems	• Reads and writes the given fractions in word	• Explanation • Demonstration. • Guided disco	• Effective communication. • Critical thinking • Creativity.	• lash cards.	• Subtracting fractions with same denominators.	Sipro teacher's guide MTC bk 4 term two pg.20 21

		I O N S			involving Subtraction of fractions with same denominators.	s.	very		• harts showing	Understanding MTC P.4 Pg.6(St. Bernard MTC Pupils book 4 pg.7(
2	2	F R A C T		**Addition of mixed numbers** • With same denominators only	• Changes mixed numbers to improper fractions. • Adds mixed fractions.	• Reads fractions. • Defines the type of fractions.	• Demonstration. • Guided discovery. • Explanation.	• Creativity. • Logical reasoning.	• Real objects like text books.	• Cutting • Grouping • Reading	New MK Bk. 4 Pg. 87 – 97 Understanding MTC P.4 Pg.7(St. Bernard MTC

		I O N S							● ract ion s	Pupi s book 4 pg.8
3				Subtraction of mixed numbers. ● With same denominators only	● subt racts mixed fractions.	● R eads and write s the given fracti ons in word s.	● D emon strati on. ● I llustr ation. ● G roup discu ssion .	● E ffecti ve com muni catio n. ● C ritical thinki ng ● Creativit y.	● las h car ds.	● subtr acting mixed number s with same denomi nators	Sipr teac er's guid MTC bk 4 term two pg.2 -23 St. Bern rd MTC Pupi s book 4 pg.8

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								• harts showing • fractions		
4				**Fractions of a group** • What is ½ of 6? • Find the remaining fractions. • Multiplication of fractions.	• Uses fractions of a group to apply in given numbers.	• Reads and writes the given fractions in words.	• Demonstration. • Illustration. • Group discussion.	• Effective communication. • Critical thinking • Creativity.	• lash cards.	• Using fractions of a group to apply in given numbers.	Sipr teac er's guid MTO bk 4 term two pg.2 -27 St. Bern rd MTO Pupi s book 4 pg.8 -87

									• harts showing • fractions			
5				**Application of fractions.** **Example** A man had 100 cows on his farm. He gave away ¾ to his wife and remained with the rest. How many cows did he give to his wife?	• Solves different word problems involving fractions in our daily life.	• Reads and spell new words involved in word statements. • Reads and writes the given fractions in words.	• Demonstration. • Illustration. • Group discussion.	• Creativity. • Logical reasoning.	• Real objects e.g. oranges, apples papers.	Collecting objects like bottle tops. • Cutting	St. Bernard MTC Pupils book 4 pg.87 88

3	1		Operations on fractions	**Multiplication of fractions** **Example** Multiply ½ x⅕	Multiplies given fractions accordingly.	Reads and writes the given fractions in words.	• Demonstration. • Illustration. Group discussion.	• Creativity. Logical reasoning.	A chart showing some examples	Collecting objects like bottle tops. Cutting	Sipro teacher's guide MTC bk 4 term two pg.26 27
	2		Decimals	**Decimal fractions** • Writing decmals -in words -in figures upto tenths	• Write decimals in words and figures up to tenths.	Uses the word decimals in problems "point"	Guided discovery. • Think pair share. • Demonstration. • Illustration	Effective communication. • Creative thinking. • Problem solving.	• Abacus. • Flash cards.	Collecting objects like bottle tops. • Cutting.	New MK primary MTC book 4 pages 98 – 111 Understanding MTC P.4 Pg. 71-76
	3		Decimals	• Expressing fractions as decimals	• Express decimals as common	Reads the given decimals in words.	• Demonstration. • Illustration. Group	• Creativity. Logical reasoning.	A chart showing some examples	• xpressing	St. Bernard MTC Pupil

				upto thenths	fractions up to tenths.		discussion.			fractions as decimals up to thenths	s books 4 pg.59
4			Decimals	• Place values of decimals up to tenths	• Identifies the place values of decimals up to tenth.	Reads and spells the pace values correctly	• Demonstration. • Illustration. Group discussion.	• Creativity. Logical reasoning.	• Abacus. • Flash cards.	Finding place values of given decimals	Understanding MTC P4 Pg.7 76
3	5		Decimals	Writing decimal fractions in words.	• Writes decimal fractions in words.	Reads and writes decimal fractions in words.	• Demonstration. • Illustration. Group discussion.	• Creativity. Logical reasoning.	• Abacus. • Flash cards.	Writing decimal fractions in words.	New MK Bk. 4 pg. 125. MK

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											pupil Bk. 3 pg. 126
4	1		Decimals	Addition of simple decimal fractions	• Adds simple decimal fractions without using a number line.	Reads and writes decimal fractions in words.	• Demonstration. • Illustration. Group discussion.	• Creativity. Logical reasoning.	A chart showing some examples		• dding simple decimal fractions without using a number line.	Understanding MTC P.4 Pg.7 76

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2			Addition of decimal fractions using a number line.	• Add decimal using a number line.	Reads and writes decimal fractions in words.	• Demonstration. • Illustration. Group discussion.	Effective communication. • Creative thinking. Problem solving.	• Abacus. • Flash cards.	Adding decimal using a number line.	Sipro teacher's guide MTC bk 4 term two pg.
3		Decimals	Word problems involving addition of decimals.	• Solves word problems involving addition of decimals	Reads and writes decimal fractions in words.	Guided discovery. • Think pair share. • Demonstration. Illustration	Effective communication. • Creative thinking. Problem solving.	• Abacus. • Flash cards.	Solving word problems involving addition of decimals	Primary MTC for Uganda pupils book 4 pg. 73-75
4			Subtraction of decimals. Word problems involving subtraction of decimal.	• Subtract decimal fractions up to tenths. • Solves word problems involving subtraction of	Reads and writes decimal fractions in words. Reads and spells new words	Guided discovery. • Think pair share. • Demonstration. Illustration	• Logical reasoning. • Creativity. Effective communication.	• Abacus. • Flash cards.	• ubtracting decimal fractions	St. Bernard MTC Pupils book 4 pg. Primary MTC for

					decimals.					up to tenths.	Ugan da pupil s book 4 pg. 73-75
4	5			Ordering decimals.	● Order fractions from big to small and vice versa.	Reads and writes decimal fractions in words.	Guided discovery. ● T hink pair share . ● D emon strati on. Illustration	● Logical reasoning. ● Creativit y. Effective communica tion.	Papers Colors	Ordering decimals	New MK Bk. 4 pg. 125. MK pupil Bk. 3 pg. 126
5	1	2- D I M E N S I O N	Identifyi ng 2 – dimensi onal figures	**Plane shapes** Examples: ● Rect angles. ● Circl e ● Rho mbus ● Oval ● Squ are ● Kite	1. Iden tifies plane shapes. 2. Dra ws given shapes. 3. Writ es the propertie s of shapes.	D escri bes and name s shap es of 2 – dime nsion al	● Demons tration. ● Explana tion ● Discussi on.	● Effectiv e communic ation. ● Logical reasoning. ● C reativi ty	● bje cts wit h suc h sha pes e.g.	● Identi fying ● Drawi ng ● shapi ng	New MK Bk. 4 pg. 125. MK pupil Bk. 3 pg. 126

		A L G E O M E T R Y		• Trap ezium • Tria ngle		figures. • S tates the			balls, bas	• ra wi ng	
5	3		Drawing and measuring angles	• Dra wing angles using a protractor. • Mea suring s using a protractor e.g. 50^0, 30^0, 60^0, 90^0 not exceeding 90^0	• Draws angles using a protractor. • Measuring angles using a protractor.	• Uses the word "Protractor" • "Angles" etc.	• Demons tration. • Guided discovery. • Explana tion. • Illustrati on	• Effective communic ation. • Logical reasoning. • Accurac y.	• Rulers. • Protra ctor • Divide rs.	• ra wi ng.	New Mk Bk 4 Pg. 143. Under stand ng MTC P.4 Pg.1 0-121
	4		Constru cting squares, rectangl e and equilate ral triangle s	1. Con structing squares 2. Rect angles using a protractor when given sides.	• Con structs squares, rectangle s, using a protractor.	• Describ es • Identifie s and names the instrument s for constructi on	• Demons tration. • Explana tion	• Effective communic ation. • Critical thinking. • Logical reasoning.	• Protra ctors. • Divide rs • Rulers • Pencil s • Pair of compass es	• Drawi ng • Const ructing.	Under stand ng MTC P.4 Pg. St. Berna rd MTC Pupil s book

Week	Period	Topic	Sub-topic	Content	Objectives		Methods	Values	Instructional materials	Skills	References
										• easuring	4 pg.87
5	5	2-DIMENSIONAL GEOMETRY		3. Constructing equilateral triangles when given sides using a pair of compasses only.	• Constructs equilateral triangles using a pair of compasses only when given sides.	Identifies and names the instruments used for construction	Demonstration Explanation	Critical thinking Logical reasoning	Protractor Dividers Ruler Pencil Pair of compasses	Drawing Constructing Measuring	St. Bernard MTC Pupils book 4 pg.92
6	1		Right angles	• Drawing and recognising right angles.	• Recognizes right angles. • Draws right angles using a protractor only.	• Points out and names right angles in the class room and in the	• Explanation. • Illustration. • Guided discovery. •	• Logical reasoning. • Creative thinking. • Effective communication.	• Protractors. • Dividers. • Rulers • Pair of compasses.	-Drawing. -Identifying -Constructing. -Measure.	New MK pupils bk 4 Pg. 144. Sipro teacher's guide MTC bk 4 term two pg.

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						playground.				32-33
2		Perimeter	1. Finding perimeter when given sides e.g • Squares • Rectangles • Triangles.	• Finds perimeter of squares, rectangles and triangles when given sides.	• Explains the meaning of perimeter. • Illustrates perimeter of figures in exercise books.	• Illustration. • Demonstration • Explanation.	• Critical thinking. • Effective communication. • Logical thinking.	• Cuts of squares, rectangles and triangle.	• Drawing shapes. • Finding missing side.	New MK Bk 4 Pg. 204 Primary MTC for Uganda pupils book 4 pg.104
4		Area	• Finding area of square • Finding area of a rectangle.	• Finds area of a rectangle and square by both counting and using	• Explains the meaning of area. • Finds	• Explanation • Demonstration. • Guided discovery.	• Critical thinking. • Problem solving. • Effective communication.	• Cuts outs of shapes like squares, rectangles.	Drawing shapes. Identifying sides. Finding area.	New MK Bk 4 Pg. 209

					formula.	the area.					
6	5	2-DIMENSIONAL GEOMETRY	Circles	**Making circles** • Using hard paper. • Using strings. • Using the big toe. • Using a pair of compasses.	• Makes circles using hard papers and toes. • Uses a pair of compasses to draw circles.	• Identifies names and uses both strings and hard papers to make circles.	• Demonstration. • Explanation. • Discussion	• Critical thinking. • Problem solving. • Creativity.	• Strings. • Hard papers.	Making and drawing circles.	New MK Bk. 4 Pg. 134. Primary MTC for Uganda pupils book 4 pg.96
7	1		Parts of a circle	Naming parts of a circle. Example. • Diameter • Radius • Chord • Circumference	1. Names the parts of a circle.	• Identifies names and uses the words like radius Diameter	• Explanation. • Illustration • Demonstration • Guided discovery.	• Logical reasoning. • Creativity. • Effective communication	• Cutouts. • Chart showing parts of a circle.	• Identifying. • Drawing • Naming parts.	New MK Bk 4 Pg. 135. St. Bernard MTC Pupils book 4

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2		Diameter and radius	1. Finding diameter when given radius. 2. Finding radius when given diameter.	• Finds diameter. • Measures diameter. • Finds radius • Measures radius.	• Explains and uses / relates polygons as used in our daily life.	• Explanation. • Discussion. • Question and answer.	• Logical reasoning. • Critical thinking. • Creativity.	• Real objects. • Cut outs. • Strings • Rulers.	• Relating parts of a circle. • Finding length of diameter and radius.	pg.9€ Mk Bk. 4 Pg. 139-140 Understanding MTC P.4 Pg.11 5-119
3		Polygons	• Drawing and naming some polygons • Triangles • Square • Rectangle • Pentagon – five sides. • Hexagon – Six sides.	• Identify and names the polygons.	• Explains and uses / relates polygons as used in our daily life.	• Explanation. • Discussion. • Question and answer.	• Logical reasoning. • Creativity. • Effective communication.	• Cut outs. • Real objects etc.	-Identifying. -Naming reading	Understanding MTC P.4 Pg.11 B St. Bernard MTC Pupils book 4 pg.1€

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4	3 – D I M E N S I O N A L F I G	3-dimensional geometry Identification.	Identifying and naming 3 – dimensional figures. Example • Cone • Cylinder • Cube • Cuboid • Triangular pyramid etc.	• Identifying 3 – dimensional figures. • Naming 3-dimensional figure. • Drawing 3 – dimensional figures.	• Names and identifies common solids in English and mother tongues.	• Explanation. • Illustration • Discovery. • Question and answer.	• Creative thinking. • Logical reasoning. • Effective communication.	• Models. • Cutouts. • Real objects of such shapes.	Drawing and naming.	New Mk Bk 4 Pg. 128.

5		Naming parts of the solid shapes.	Parts of solid shapes. Example 1. Cube & cuboid (a) 6 faces (b) 8 vertices (c) 12 edges 2. Cylinder	• Identifies and labels, faces, edges and vertices. • Counts the number of faces, edges and vertices.	• Identifies names and uses words like; edges, vertices and faces in our daily life.	• Explanation • Denomination • Illustration • Guided discovery	• Critical thinking. • Effective communication • Creativity.	• Models • Real objects • etc.	Drawing. Naming Identifying.	A New Mk Bk 4 Pg. 130. St. Bernard MTC Pupils book 4 pg.10 8-110

8	1		Finding the volume of a cube and a cuboid	(a) 1 curved surface (b) 2 plane surfaces (c) Area of parts of cube and cuboid (d) Volume of cubes and cuboid.	• Finds the volume of a cube and the cuboid. • Finds the area of some parts of some sides of a cube and the cuboid.	• Reads and spells words like area and volume.	Demonstration • Explanation	• Effective communication. • Logical reasoning. • Accuracy.	• Models. • Cutouts. • Real objects of such shapes.	Finding the volume of a cube and a cuboid		St. Bernard MTC Pupils book 4 pg.10 B-110
	2	3-DIMENSIONAL GEOMETRY	Angles	**Types of angles** 1. Right angles (Complementary angles of 2 angles only $X + 40^0 = 90^0$ $X+40^0-40^0 = 90^0-40^0$	1. Identify the different types of angles. • Find the complement and supplement of angles.	• Explains the meaning of complement + and supplement angle	• Explanation. • Question and answer. • Discussion • Demonstrati	• Problem solving. • Logical reasoning. • Effective communication	• Cut outs. • Text books • Illustration • Chalk board		• identifying angles	New MK primary MTC bk 4 pg. 115 Siprocc teacher's guide MTC bk 4 term

Wk	P	Topic	Sub-topic	Content	Competences	Language	Methods	Values/Skills	Instructional materials	Activities	References
				$X = 50^0$		s.	on • Illustration				• Finding missing numbers	two pg.32
8	2	3-DIMENSIONAL GEOMETRY	**Angles**	2. Straight angles (Supplementary angles of 2 angles only) $P + 60^0 = 180^0$ $P+60^0-60^0=180^0-60^0$ $P = 120^0$	• Find the complement and supplement of angles.	• Explains the meaning of complement + and supplement angles.	Demonstration • Explanation • Think pair share.	• Problem solving. • Logical reasoning. • Effective communication	• Cut outs. • Text books • Illustration • Chalk board	• Identifying angles • Finding missing numbers	St. Bernard MTC Pupils book 4 pg.92 93

3	DATA HANDLING	Tallies	Completing the tally marks Interpreting the graph showing the tallies	• Uses tally marks to collect and group data. • Interprets the graph showing the tallies	• Counts the given tallies and draws the required tallies.	• Explanation. • Question and answer. • Illustration. • Discussion. • Demonstration.	• Effective communication. • Logical thinking. • Creative thinking. • Problem solving.	• Real objects e.g. • Straws books. • Pens • Bottle tops.	• Counts tally marks. • .	New MK MTC Primary Bk 5 Pg. 115 – 123. Mk Old Edition P/S Bk 5 Pg.
4		Pictographs	Interpretation and drawing of pictographs.	• Organizes data. • Displays data. • Interprets data	• Counts objects / people. • R	Demonstration • Explanation • Illustration	• Problem solving. • Logical reasoning. • Effective communi	• Cut outs. • Text books • Illustration • Chalk board	• Growing using tallies. • Drawing • Reading	Sipro teacher's guide MTC bk 4 term two pg.

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						ecords. • Describes graphs. • Explains graphs.		cation		• Interpreting. • Displaying • Collecting • Writing	52-54 St. Bernard MTC Pupils book 4 pg.11-5118
8	5	DATA HANDLING	**Bar graphs**	Interpretation and drawing of bar graphs	• Organizes data. • Displays data. Interprets data	• Counts objects / people. • Records. • Describes graphs. • Explains ns	Demonstration • Explanation • Guided discovery.	• Problem solving. • Logical reasoning. • Effective communication	• Bars of wood. • Text books	• Drawing • Reading • Interpreting. • Displaying • Collecting • Writing	Sipro teacher's guide MTC bk 4 term two pg.56-59 Primary MTC for Uganda pupils book

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						graphs.					4 pg.10 3-110
9	1	DATA HANDLING	**Line graphs**	Interpretation and drawing of line graphs	• Organizes data. • Displays data. • Interprets data	• Counts objects / people. • Records. • Describes graphs. • Explains graphs.	Demonstration • Explanation • Group discussion.	• Problem solving. • Logical reasoning. • Effective communication	• Text books • Threads.	• Drawing • Reading • Interpreting. • Displaying • Collecting • Writing	Sipro teacher's guide MTC bk 4 term two pg.63 67 Primary MTC for Uganda pupils book 4 pg.

TOPICAL BREAKDOWN FOR P.4 MATHEMATICS TERM II 2023

THEME	TOPIC	SUB-TOPIC	DURATION	OUT COMES
NUMERACY	FRACTIONS	- Types of fraction - Naming parts of a mixed fraction - Conversion of mixed to improper and vice versa - Finding equivalent fractions - Reducing fractions - Comparing fractions (≤, ≥ or =). - Operation on proper fraction (Subtraction and addition only) - Operation on mixed fractions (addition and subtraction) - Word problem involving addition and subtraction of fraction. - Addition on different denominators - Subtraction of different denominators	2 weeks	The learner is able to solve problems involving fraction and relating them to real life situation

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		• Multiplication of fractions • Application of fractions • Decimal fractions. • From common to decimal and vice versa. • Place values of decimals • Addition on decimals • Subtraction on decimals • Arranging decimals		
MEASURES	DIMENSIONAL GEOMETRY	• Identifying and naming two dimensional figures • Matching of pictures of figures to their names. • Drawing two dimensional figures (triangle, square, rectangle) • Drawing line and measuring line segments • Drawing and measuring angles. • Identifying right angles • Constructing 90^0 • Constructing a square • Constructing a rectangle • Constructing an equilateral triangle	4 weeks	The learner is able to recognize and construct various geometric figures and relate them to other fields such as architectural drawings.
		• 3. Dimension • Naming solid shapes • Identifying properties of three-dimensional figures (cube, cuboid, cylinder) • Marking and drawing 3 dimensional figures • Finding volume of a cube and cuboid.		

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		● Angles of a triangle ● Right and straight angles.		
Interpretation of graphs and data	Data handling	● Counting and representing numbers using tally marks. ● Drawing pictographs ● Interpreting pictographs, ● Recording information using tally marks ● Reading, drawing and interpreting tables ● Drawing and interpreting bar and line graphs	1 ½ weeks	The learner is able to interpret and draw and solve problems involving graphs
Measurements	Money	● Recognition of notes ● Currency ● Addition of money ● Completing shopping bills tables ● Finding profits and losses ● Costs and prices	1 ½ weeks	The learner is able to solve practical problems related to utilization of Uganda currency in everyday life.

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