SCHEME OF WORK FOR P.4 MATHEATICS TERM I

WK	PD	THEME	SUB THEME	CONTENT	SUBJECT COMPETECIES	LANGUAGE COMPETENCIES	METHODS	LIFE SKILL	T/L AIDS	T/L ACTS	REF
1	1	S E T	Revision of sets	- Revision of sets; Definition of: - (a) Set (b) Elements - Naming sets - Counting number members in a set listing elements of a set	 Group objects of a set. Draws objects. Identifies sets. Listing of members in a set 	Defines a set.Names of types of sets.	Guided discussion Demonstration Illustration Explanation	 Critical thinking Effective communi cation. Creative thinking. 	Real objects coins, tins, pens, books, charts etc.	-Grouping -Drawing -Counting -Oral discussion	A new MK primary MTC book 4 pg 1.
		C O N C E P	Types of sets	Types of sets	 States examples of different types of sets. Identifies types of sets. 	 Defines the types of sets. Names the different types of sets. Give oral examples of empty sets 	Demonstration Explanation	 Creative thinking. Effective communi cation Critical thinking 	Real objects A chart	-Matching - Drawing -Naming sets -Listing members.	New MK primary MTC book 4 pg 1-5
	2	Т	Intersectio n of sets	 Symbol for intersection. Drawing venn diagrams and shading. Listing members in the intersection. Number of elements in the intersection set. 	 Writes the symbol for intersection. Draws venn diagrams. Shades the intersection. Lists members. 	 Defines intersection sets. Describes the shaded part. 	Illustration Demonstration Guided discussion.	Creative thinking Logical thinking	Real objects. A chart showing intersection part.	-Drawing and shading Listing members in the intersection .	MK primary MTC book 4 pg9 - 11
2	1		Union and intersection of sets	Symbol for union.Drawing, shading	 Writes the symbols for unionsets . 	Defines a union set.Describes	-Think pair share. -Guided	Decision making.	Real objects	■ Drawing and	MK Pri MTC

				and listing of members in the union set. Number of elements in the union set.	 Draws venn diagrams. Shades the union set. Lists members in theunion set. 	the shaded regions.	discussion. - Demonstration	Effective communica tioncreativity	A chart	shading. Listing members in the union	bk. 4 pg. 13 - 15
2	1	S E T S	Differenc e of sets	Inpterprete symbols and find (i) A - B (ii) B - A (iii) n(A-B) (iv) n(B-A)	 Interprets the concept of the difference of sets. Shades the regions. Draws the regions. 	 Counts the numbers of members in; A – B B - A Describes the shaded parts. 	 Guided discussion Demonstration Discovery Illustration 	 Effective communica tion. Critical thinking. Creativity 	Real objects.A chart	DrawingShadingListingCounting	New MK primary MTC book 4 page 13-15
		N C E P T	Sub sets	 Number of members in a set. Listing members in a set. Listing subsets in a set. 	 Lists members in a set. Writes the symbol of subject. Lists the subsets in a set. 	Defines a subset.Counts the number of subsets.	Guided discussion.Demonstrat ion.Discovery.	Creativity.Effective communicat ion.Critical thinking.	Real objects A chart	ListingDrawingCounting	New MK Primary MTC bk 4 pg. 21
		NUMBER ATION SYSTEM AND PLACE VALUE	Place values	Reading and counting numbers Place values. (a) In words. (b) In figures. Example 4 5 6 3 Ones Tens Hundreds Thousands	 Identifies the place values. Writes the place values. 	 Read the place values in words and in figures. Counts in tens from 10-200 Names place values from ones to tens thousands 	 Guided discussion. Group illustration. 	 Creative thinking. Effective communicat ion. Decision making. 	• Abacus • Place value chart.	 Identifyin g place values. Writing place values. 	New MK Primary MTC book 4 pg 19 – 20.

			Place values of digits in numbers.	Values of digits in numbers. Example 1 What is the value of each in the number 7 4 6 3 2 Tth Th H TO	•	Identifies the place values of digits. Writes the place values on each digit. Multiplies digits by their place values. Writes the values.	•	Reading values in words.	-	Guided discovery Demonstrat ion. Illustration.	 Creative thinking. Effective communicat ion. Discussion making. 	■ Place value chart. ■ Abacus.	 Identify ing place values. Multiply ing of digits by P.V. Writing values. 	New MK Primary MTC Bk 4 pag 21.
		N U M B E R A	Expandin g of numbers	Expanding of numbers Using place values Using values.		Identifies place value. Writes the values. Writes in expanded form.		Reads the place values. Reads the values.	•	Illustration. Discovery Group work	 Effective communicat ion. Logical thinking Decision making 	• A place value chart.	-Identifying values. -Writing values. -Expanding numbers.	New MK primary MTC bk 4 pg 21.
3	1	I O N S Y S T E	Expande d numbers	What number has been expanded (7 x 1000) +(4 x 100 + (3x10) + (8 x 1)		Multiplies the numbers correctly. Adds the numbers. Identifies the expanded number.	-	Reads the figures. Reads the expanded number.	-	Guided discovery. Group work. Illustration.	 Effective communicat ion. Logical reasoning. 	• Place value chart.	-Multiplying -Adding -Identifying	New MK primary MTC book 4 pg 24
	2	M A N D	Writing words in figures and vice versa	Writing figures in words.Writing words in figures.	•	Writes figures in words. Writes words in figures.	•	Reads figures correctly. Reads words correctly.		Explanation Guided discovery Discussion.	 Effective communicat ion. Creative thinking. Logical reasoning. 	• Place value chart.	-Writing -Reading -Arranging digits.	New MK primary MTC bk 4 pgs. 22-23

	L Rounding A off of C whole E numbers V A L U E	 Rounding off to the nearest tens. Rounding off to the nearest hundreds. Rounding off to the nearest thousands. 	Mentions the meaning of approximate. Rounds off numbers to the nearest tens / hundreds.	-	Mentions the meaning of approximat e. Reads the number given.	•	Discovery Discussion Illustration	 Logical thinking. Critical thinking. Effective communicat ion. 	■ Place value chart.	-Rounding off to the nearest tens / hundreds.	New MK primary MTC bk 5 pages 54 - 55
3	Roman numerals	 Basic roman numerals. Roman numerals got by repeating x, c Roman numerals got by adding subtracting. 	Identifies roman numerals. Adds the Roman numerals. Subtracts the Roman numerals.	-	Recites the roman numerals. Mentions the Roman numerals obtained.	•	Explanation Discussion Discovery.	Creative thinking.Problem solving.Logical thinking.	• Chart showing Roman numerals.	-Reciting the Roman numerals.	New MK Primary MTC bk 4 pg 33
4	Roman numerals	 Changing from Hindu Arabic numerals to Roman numerals. Changing from Roman numerals to Hindu Arabic numerals. Word problems about Roman and Hindu Arabic numerals. 	Writes the Hindu Arabic numerals in Roman numerals. Writes the Hindu Arabic numerals correctly. Writes the Roman numerals in Hindu Arabic.		Recites the Roman numerals. Reads the statement s given correctly.		Explanation Discussion Discovery.	 Creative thinking. Problem solving. Logical thinking. 	• Chart showing Roman numerals.	-Writing the Roman numerals. -Reading the statement given.	New MK Primary MTC bk 4 pg. 34-35.
		Addition and subtraction of roman	Adds Roman numerals. Subtracts	•	Reads the given word	•	discussion	Problem solving.Creative		-Adding roman numerals.	New MK Pri MTC bk

				numerals.	roman numerals.	problem. Recites the Roman numerals.	■ Discovery.	thinking. • Logical thinking.		Subtracting roman numerals.	4 page 35 Oxford pribk 4 page 67.
4	2	OPERA TION ON WHOLE NUMBE RS	Adding up to ten thousand	Addition Without word problems. With word problems.	 Adds numbers without word problem correctly. Adds numbers with word problems correctly. 	 Reads numbers in words. Interprets the word problem given. 	 Explanatio n. Guided discussion . Guided discovery. 	 Problem solving. Logical thinking. Creative thinking. 	• Flash cards showing numbers for addition.	Adding numbers. Reading the word problem.	New MK MTC Bk. 4 pages 38 - 41
			Subtracti ng up to ten thousand	 Subtraction. Without regrouping. With regrouping. 	 Subtracts numbers without regrouping. Subtracts numbers with regrouping. 	 Reads the numbers in words correctly. Uses the new words to make correct sentences 	 Explanatio n. Guided discovery. Guided discussion . 	■ Effective communica tion	 Flash cards showing numbers for subtraction Using abacus 	Subtracting numbers with or without regrouping.	New MK primary MTC bk pages 42 – 43.
5	2	O P E	Subtracti ng up to ten thousand	 Subtraction with regrouping. 	 Subtracts numbers with regrouping. Arranges numbers according to their correct place values. 	 Reads the numbers given in words. Arranges numbers according to their correct. 	Explanation. Guided discovery.Guided discussion	Problem solving.Logical thinking.Creative thinking.	• Flash cards showing numbers for subtraction	Subtracting with regrouping.	New MK primary MTC bk 4 pg 43 - 44
	3	R A T I	Multiplica tion	 Multiplication Multiplication as repeated addition. By multiples of ten 90, 80. 70 Three digit 	 Multiplies given problem. Identifies the multiples of ten. 	 Reads the word problem. Recites the multiples of ten. Uses correct 	Explanation.DiscussionDiscovery.Rote method	Creative thinking.Logical thinking.Problem solving.	Counters.Multiplicatio n table.	Multiplying numbers	New MK primary MTC bk 4 pages 46 - 51

6	N O N U M	Division	figures by one digit. Two digit figures by 2 digits. Multiplication on word problems. Division as repeated subtraction.	Divides numbers using repeated subtraction.	mathematica I terms for multiplicatio n e.g 2 multiplied by 3 Counts the number of		■ Counters	Counting numbers that have	New MK primary
	B E R		 Without remainders. 	 Divides numbers using long division methods 	times a number has been subtracted			been divided.	mathsB k 4 pages 52 - 55
	S		 Division by one digit number Division with remainders. Division by 10s Word problems. 	Divides numbers using long division methods.	 Recites the multiplicati on table. Reads the word problems. 	 Discussion Guided discovery. Demonstr ation. 		-Dividing numbers using long division Multiplying. Subtracting	New MK Primary MTC Bk 4 pages 53 – 55.
		Average	Average without word problem.With word problem.	 Solves the number given. Adds numbers. Divides the number correctly. 	 Reads the number or digits given. Reads the statement given. 	 Explanatio n. Guided discussion . Discovery. Problem solving. Critical thinking. Discuss n making. 	bundles.	Finding the average.	New MK Pr. MTC bk5 pg. 76 - 77
	P A T T	Types of numbers	Types of numbers Counting numbers. Whole numbers. Even numbers Odd numbers.	 Identifies the types of numbers. Finds the missing numbers. 	Recites the numbers. Counts numbers correctly.	 Explanatio n. Guided discussion control Discovery. Problem solving. Critical thinking. Discussion making. 	• Chart showing examples of the types of numbers.	Giving types of numbers.	New MK primary MTC bk 4 pg. 61.
	E R N S	Number sequences	Number sequences By adding numbers like 2, 4, 6, By subtracting	 Identifies the next numbers by adding. Identifies the next number by 	Counts numbers.Mentions the next number in		• Chart showing number sequences.	Finding the next number in the sequences.	New MK Pr. MTC bk4 pages

				numbers like 6,		subtracting.	the					61 – 62
7	1	A N D S E		 4, 2 Number sequences By subtracting numbers like 6, 4, 2. Find missing numbers in a sequence 	•	Identifies the next number in the sequence by subtracting.	sequence. Counts numbers. Mentions the next number in the sequences	ExplanationDiscussion-Guided discovery	Problem solving.Logical thinking.Creative	Chart showing number sequences	Finding the next number in the sequences	New MK. Pr. MTC bk 4 pg. 62-63
	4	QUENCES	Multiples	Multiples Listing multiples of given numbers. Common multiples. Lowest common multiples. Counting in tens, hundreds and thousands. Multiplying by 10, 100 and 1000. Multiplying by multiples of 10. Factors of numbers GCF if numbers Completing tables		Finds the multiples of various numbers. Lists the common multiples. Multiples various numbers like 10, 100, 1000	Defines multiples. Mentions the multiples of various numbers. Counts in tens, hundreds and thousands		thinking		Finding the multiples.	New MK Pr. MTC bk 4 pg 64 - 71
7	4	Numbe r facts and sequen ces	Magic square.	Magic square	•	Completes the magic square	Find the value of the missing numbers			 Chart showing magic square. 	Finding the missing numbers in the magic square.	Old MK Pr. MTC bk 4 pg. 72-73 Unders tanding MTC bk 4 pg 88.

TOPICAL BREAKDOWN FOR P.4 MATHEMATICS TERM I

THEME	TOPIC	SUB-TOPIC	DURATION	OUT COMES
SETS	SET	 Types of sets . Empty Equal Equivalent Forming sets Listing members in sets Finding number of members Finding common members. Union of sets Shading and describing shaded regions. Representing information on the venn diagram Interpreting information on the venn diagram 	1 ½ (1 – 2)	The learner is able to demonstrate the knowledge of sets to the problems in real life situations.
NUMERACY	WHOLE NUMBERS	 Place values of numbers up to 99. 999 Values of numbers Sum and difference of values of digits. Expanding whole numbers using place values and values Finding the expanded number Writing in words Writing in figures Round off to the nearest tens, hundreds and thousands Roman numerals up to 100 Application of Roman numerals. Hindu Arabic numerals 	2 wks (3- 4)	The learner is able to appreciate the need to count in everyday life .
	OPERATION ON WHOLE NUMBERS	 Addition of whole numbers up to 99999 with and without neighbouring Word problem about addition Subtraction of whole numbers up to 99999 with and without regrouping. Word problem on subtraction Multiplication as repeated addition. Multiplication of whole numbers up to 3 digital distributed by 1 and 2 	3 weeks (5 – 7)	The learner is able to use the four basic operations to solve problems.
		 World problem on multiplication. Division as repeated subtractions. Division of whole numbers by 1 digit numbers. without a remainder With a remainder Division on word problems Division of whole numbers by 10 Average Word problem involving division; 		•

PATTERNS AND SEQUENCE	 Types of numbers (even and odd) Finding sum, product and difference of numbers /even and odd. Sequence of numbers. Increasing progression (addition and multiplication) Decreasing progression (Subtraction) 	2 weeks (8 – 9)	The learner is able to able to relate and apply simple computation skills involving patterns and sequences in real life situation
	 Multiples of numbers LCM Multiples of 10, 100, and 1000 Factors of numbers. Finding GCF of numbers. Completing tables (wheels) Magic squares 		

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
		F R A	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. 	ExplanationDemonstration.Guided discovery	 Effective communication. Creativity. 	Real objects e.g. oranges, apples papers.	Collecting objects. Shading Naming.	MK Bk.3 pg. 94 – 98. A new MK Bk 4 pg. 80 - 86
		C T I O N	Fractions	 Equivalent fractions. How to get equivalent. Finding missing parts of fractions. Reduce fractions of atleast one factor Comparing Fractions. 	 Multiples and dives. Compares fractions. Reduces fractions to lowest term. Identifying simple equivalent fractions using diagrams 	Describes and names equivalent fractions. Writes equivalent fractions.	Group discussion. Question and answer.	 Problem solving. Effective communicati on. Critical thinking. 	■ Flash cards. ■ Charts showing fractions	Cutting Shading	MK primar y MTC bk 4 pg 82 - 86
		S	Operations on fractions	 Ordering simple fractions. Addition of fractions With same denominators. With different denominators. Subtraction of fractions With same denominators. With same denominators. With different 	 Adds fractions with same and different denominators. Subtracts fractions with same and different denominators. 	Reads fractions given	 Demonstration. Illustration. Group discussion. 	 Effective communicati on. Critical thinking Creativity. 	Pupils chart showing fractions	Cutting.GroupingReading	New MK Bk 4 Pg. 87-97.

				denominators.								
		F R A C T I		 Writing mixed as proper fraction Changing improper fractions to mixed numbers. Addition of mixed numbers With same denominators only Subtraction of mixed numbers. With same denominators only Fractions of a group What is ½ of 6? Find the remaining fractions. Multiplication of fractions. 	Changes mixed numbers to improper fractions. Adds and subtracts mixed fractions. Uses fractions of a group to apply in given numbers.	•	Reads fractions. Defines the type of fractions.	 Demonstration On. Guided discovery. Explanation. 	Creativity.Logical reasoning.	Real objects like text books.	• Cutting • Grouping • Reading	New MK Bk. 4 Pg. 87 - 97
2	1	N S	Decimals	Decimal fractions Writing decmals -in words -in figures upto tenths Expressing fractions as decimals upto thenths Expressing decimals as fractions up to thenths Place values of decimals upto tenths	Write decimals in words and figuresupto tenths. Express decimals as common fractions up to tenths. Add decimal using a number line. Order fractions from big to small and vice versa. Subtract	•	Uses the word decimals in problems "point"	 Guided discovery. Think pair share. Demonstr ation. Illustration . 	 Effective communicati on. Creative thinking. Problem solving. 	■ Abacus. ■ Flash cards.	 Collecting objects like bottle tops. Cutting. 	New MK primar y MTC book 4 pages 98 - 1111

2- D I M E N S	Identifyin g 2 – dimensio nal figures	 Tenths Addition on decimals Ordering decimals. Plane shapes Examples: Rectangles. Circle Rhombus Oval Square Kite Trapezium Triangle 	1. 2. 3.	decimal fractionsupto tenths. Interpret word problems. Identifies plane shapes. Draws given shapes. Writes the properties of shapes.		Describes and names shapes of 2 – dimension al figures. States the properties of the	 Demonstration. Explanation Discussion. 	 Effective communicati on. Logical reasoning. Creativity 	Objects with such shapes e.g. balls, baskets, cups, eggs	Identifying Drawing shaping	New MK Bk. 4 pg. 125. MK pupils Bk. 3 pg. 126
O N A L G E	Drawing ling segments	 Paralleogram Rhombus Drawing and measuring line segments. Example. End point End point 5cm 	•	Draws line segments. Measures line segments	v "	Jses the vord segment" Make correct sentences	Illustration.Demonstration.Explanation	 Logical reasoning. Creativity. Effective communicati on. 	etc. Dividers. Pencil. Rules etc	DrawingMeasuring	A new MK Bk. 4 Pg. 142.
O M E T R Y	Drawing and measurin g angles	 Drawing angles using a protractor. Measuring ∠s using a protractor e.g. 50°, 30°, 60°, 90° not exceeding 90° 	•	Draws angles using a protractor. Measuring angles using a protractor.	V	Jses the vord Protractor" Angles" etc	 Demonstration. Guided discovery. Explanation . Illustration 	 Effective communicati on. Logical reasoning. Accuracy. 	Rulers.ProtractorDividers.	Drawing.Measuring.	New Mk Bk 4 Pg. 143.

3	1		Construct ing squares, rectangle and equilater al triangles	1.	Constructing squares Rectangles using a protractor when given sides.	-	Constructs squares, rectangles, using a protractor.	■ I a t iii f	Describes dentifies and names he enstruments or construction	Demonstration.Explanation	 Effective communicati on. Critical thinking. Logical reasoning. 	 Protractors Dividers Rulers Pencils Pair of compass 	DrawingConstructing.Measuring.	
		2- D I M E		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 instrument s used for construction	Demonstrat ion Explanation	Critical thinking Logical reasoning	Protractor Dividers Ruler Pencil Pair of compasses	Drawing Constructin g Measuring	
		N S I O N A L	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 play ground.	 Explanation Illustration Guided discovery 	 Logical reasoning. Creative thinking. Effective communicati on. 	ProtractorsDividersRulersPair of compasses.	-DrawingIdentifying -ConstructingMeasure.	New MK pupils bk 4 Pg. 144.
		G E O M E T	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.DemonstrationExplanation.	 Critical thinking. Effective communicati on. Logical thinking. 	• Cuts of squares, rectangles and triangle.	Drawing shapes.Finding missing side.	New MK Bk 4 Pg. 204

4	R Y	Area	Finding area of squareFinding area of a rectangle	•	Finds area by both counting and using formular		Explains the meaning of area. Finds the area.	ExplanationDemonstration.Guided discovery.	 Critical thinking. Problem solving. Effective communicati on. 	• Cuts outs of shapes like squares, rectangles.	Drawing shapes. Identifying sides. Finding area.	New MK Bk 4 Pg. 209
	D I M E	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.	n u s h	dentifies names and nses both trings and nard papers o make ircles.	Demonstrati on.Explanation.Discussion	Critical thinking.Problem solving.Creativity.	Strings.Hard papers.	Making and drawing circles.	New MK Bk. 4 Pg. 134.
	N S I O N	Parts of a circle	Naming parts of a circle. Example. Diameter Radius Chord Circumference	1.	Names the parts of a circle.	n u v r	dentifies names and nses the nvords like nadius Diameter	Explanation.IllustrationDemonstrationGuided discovery.	Logical reasoning.Creativity.Effective communicati on	Cutouts.Chart showing parts of a circle.	Identifyin g.DrawingNaming parts.	New MK Bk 4 Pg. 135.
	A L G E O	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.StringsRulers.	 Relating parts of a circle. Finding length of diameter and radius. 	Mk Bk. 4 Pg. 139- 140

M E T R Y	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 communicati on. 	Cut outs.Real objects etc.	- Identifying. -Naming reading	reperto ire
3 - D I M E N S I	3- dimensio nal geometry Identifica tion.	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 indentifies common solids in English and mother tongues. 	 Explanatio n. Illustration Discovery. Question and answer. 	 Creative thinking. Logical reasoning. Effective communic ation. 	Models.Cutouts.Real objects of such shapes.	Drawing and naming.	New Mk Bk 4 Pg. 128.
N A L F I G U R E S / G E O	Naming parts of the solid shapes.	Parts of solid shapes. Example 1. Cube & cuboid Vertex Face (a) 6 faces (b) 8 vertices (c) 12 edges 2. Cylinder Plane surface Edges Curves Surface	 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 communic ation Creativity. 	ModelsReal objectsetc.	Drawing. Naming Identifying.	A New Mk Bk 4 Pg. 130.

M E T R Y		 (a) 1 curved surface (b) 2 plane surfaces (c) Area of parts of cube and cuboid (d) Volume of cubes and cuboid. 								
3 DIMEN SIONAL GEOME TRY	Angles	Types of angles 1. Right angles (Complementar y angles of 2 angles only X + 40° = 90° X+40°-40° = 90°-40° X = 50° 2. Straight angles (Supplementary angles of 2 angles only P + 60° = 180° P+60°-60°=180°-60° P = 120°	1.	Identify the different types of angles. Find the complement and supplement of angles.	Explains the meaning of compleme nt + and suppleme nt angles.	Explanatio n. Question and answer. Discussion Demonstr ation Illustration	 Problem solving. Logical reasoning. Effective communicati on 	 Cut outs. Text books Illustration Chalkboar d 	Identify ing angles Finding missing number s	New MK primar y MTC bk 4 pg.

	DATA	Tallies	Interpretation	•	Uses tally	•	Counts	Explanation.	•	Effective	■ Real	Counts	New
	HANDL ING		and drawing of picto graphs, bar graphs and line graphs		marks to collect and group data.		objects / people. Records.	Question and answer.Illustration.		communic ation. Logical	objects e.g. • Straws	tally marks. • Growing	MK MTC Primar y Bk 5
			illic graphs		Organizes data. Displays data. Interprets data.		Describes graphs. Explains graphs.	Discussion.Demonstration.		thinking. Creative thinking. Problem solving.	books. Pens Bottle tops.	using tallies. Drawing Reading Interpretin g. Displaying Collecting Writing.	Pg. 115 – 123. Mk Old Edition P/S Bk 5 Pg.

TOPICAL BREAKDOWN FOR P.4 MATHEMATICS TERM II 2016

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 Multiplication of fractions Application of fractions Pecimal fractions. From common to decimal and vice versa. Place values of decimals Addition on decimals Subtraction on decimals Subtraction on decimals 	2 weeks	The learner is able to solve problems involving fraction and relating them to real life situation
MEASURES	DIMENSIONAL GEOMETRY	 Arranging decimals 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° 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. Angles of a triangle Right and straight angles. 		

Interpretation of graphs and data	Data handling	 Counting and representing numbers using tally marks. Drawing picto graphs Interpreting picto graphs, Recording information using tally marks Reading, drawing and interpreting tables Drawing and interpreting bar and line graphs 	1 1/2 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.

SCHEME OF WORK FOR P.4 MATHEATICS TERM III 2016

WK	PD	THEME	SUB THEME	CONTENT	SUBJECT COMPETECIES	LANGUAGE COMPETENCIES	METHODS	LIFE SKILL	T/L AIDS	T/L ACTS	REF
		M E A S U R E S	Money	 Recognition of money. Coins Bank notes Change shs. to cents and vice versa. Adition of money Subtracting of money. Multiplication of money. Direct proportions. Buying and selling shopping bills. Division of money. Profit and loss. Postage rates. 	 Identifies coins and notes. Buying and selling. Calculates simple profits and loss. Costs and pricing. 	 Describes different coins and notes. Roles playing using money in English. Uses examples to describe meaning of profit and loss. 	 Discussion. Explanation. Observation. Demonstrati on Dramatization. Role playing. 	 Effective communicat ion. Critical thinking. Creativity. 	 Coins. Bank notes. Classroom shape Real objects. Backs pens. Tins Envelopes Straws Bottles etc 	Role playing using money. Role playing the buyer andseller. Describing coins notes. Giving examples of profit and loss. Working out problems involving profits and loss.	
			Time	 Revision on time. Telling time. Changing hours to minutes. Addition of time. Word problems. Subtraction of time. Word problem Time in a.m. and 	 Uses different types of clocks to tell time. Converts measures of time. 	 Tells time in the local language and English. Gives months of the year in English. 	 Explanation. Discussion Question and answer. Observation. Demonstrati on. Role playing. 	 Effective communicat ion. Critical thinking. Creative thinking. Logical thinking. Effective 	Wall clocks.Calendars.Timetable.	 Using real or model clock, the learner tells time. Making a calendar showing what month of 	New edition MTC MK pupils Bk 4 Pg. 161 185

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			p.m.				communicat		the year.	
							ion.		Working	
			 Changing days to hours. Changing hours to days. Changing weeks to days. Changing days to weeks. Addition of weeks and days Subtraction of time in weeks 	months to days.	timetable in his / her exercise book.		• Critical thinking.		out problems involving time. • Reading.	
F	MEASU REMEN TS	Capacity	 and days. Half and quarter litres. Addition of litres as half litres. Addition of litres and milliliters. 	Adds litres as half litres and milliliters.	• Expresses capacity of different items	Discussion.Explanation.Question and answer.	 Critical thinking. Effective communicat ion. Logical reasoning. 	 ½ litre containers. 1 litre container. 	PackingAdding.	New MK MTC MK Bk. 4 pg. 222 – 227.
		Weight and volume (mass)	 Half and quarter Kg. Changing Kg and gm and vice versa. Add and subtract kg and gm. Dozens, crates, trays. Volume of cubes and cuboids. 	 Changes Kgms go gms and vice versa. Adds and subtracts kgms and gms. 	Expresses weight and volume of different items.	Discussion.ExplanationQuestion and answer.				New MK MTC pupils Bk 4 Pg. 228 – 235

	Equations	Revision (using	-	Adds letters.	•	Reads and	Guided	Effective	•	Books.	-Adding	MK
	with and	letters for	•	Uses letters for		creates	discovery.	communi	-	Pens	-Subtract	prima
_	without	numbers)		numbers.		simple	Participatory	cation.	-	Text	-Forming	у
Α	letters	 Adding letters 	•	Finds perimeter		equations	approach.	■ Critical		books.	equations	pupils
		e.g. P+P = 2P		using letters for		without	Discussion.	thinking.				bk 4
L		2k + 4k = 6k		numbers.		letters.	■ Brain	■ Problem				pg.
G		Finding	•	Collects like			storming.	solving.				245-
G		perimeter using		terms.								260
E		letters for	•	Does								
_		numbers.		substitution.								
В		 Subtracting 	•	Solves given								
		letters.		equations.								
R		 Collecting like 	•	Forms								
		terms involving		equations and								
A		addition only .		solve them.								
		Substitution.										
		Equation of:										
		Addition										
		 Subtraction 										
		Division e.g.										
		$2x = 8, x \div 2 = 4$										
		Forming										
		equations of										
		addition and										
		subtraction.										

TOPICAL BREAKDOWN FOR P.4 MATHEMATICS TERM III 2016

THEME	TOPIC	SUB-TOPIC	DURATION	OUT COMES
MEASUREMENTS	TIME	 Days of the week Conversion of days to weeks and vice versa. Month of the year. Converting years into months and vice versa. Converting months to days Telling time Changing days to hours and vice versa Changing hours to minutes and vice versa. Finding duration. 	2 week (1-3)	The learner is able to apply the knowledge of time in real life situation.
	Length Mass Capacity	 Measuring length (M and cm) Finding perimeter and area of a square, rectangle and triangle. Measuring mass Converting mass (Kg to g and vice versa) Measuring capacity. Litres to milli8litres Word problems involving capacity 	4 weeks (8 - 9) (3 - 7)	The learner is able to recognize and use standard instruments and units for measuring mass, length and capacity
ALGEBRA	Equations	 Collecting like terms Finding the missing numbers in (1)addition,(2)subtraction, (3)multiplication and (4)division. Word problems on missing numbers. Substitution. Equations with addition Subtraction Multiplication Division Forming and solving equation. 	2 weeks (7 – 9)	The learner is able to solve mathematical problems and puzzles using the knowledge of Algebra.