P.5 MATHEMATICS SCHEME OF WORK FOR TERM I

Wk	Pd	Topic	s/topic	Content	Subject competences	Language competences	Methods	Life skills	Teaching aids	Teaching act	Ref
1	1	Set concept	Types of sets	Definition of a set Equivalent sets Equal sets Joint and disjoint sets Matching sets Empty sets	Defines a set Identifies different types of sets	Names different types of sets Pronounces Spells and Constructs sentences	Discussion Demonstration Illustration Explanation	Critical thinking Creative thinking Effective communication	Real objects Coins Tins Pens Books	Drawing Oral Discussion Written exercises Collecting materials	Mk old edition pg 1 – 25 Mk new edition pg 1 – 22 Function MTC 1 – 15
			Sets and Venn diagrams Difference of sets Shading and describing regions Number of elements Sub sets	Union of sets Intersection of sets Representing union and intersection sets on Venn diagrams Difference of sets (complement) Shading regions Describing shaded regions Number of elements Defining subsets Listening subsets Finding number of subsets Representing	Forms sets Shades regions Represents union and intersection on Venn diagrams Lists sub sets Finds number of subsets	Spells Pronounces Makes sentences using words like union intersection				Forming and drawing Drawing venn diagrams Identifying members of union and intersection set on the venn diagram Drawing venn diagram and using them	P. 5 curri pg 85-86

				subsets on a Venn diagram							
2	1 to 6		Probability	Place coins Rolling a dice Colours Days of the week	Tosses a coin Rolls a dice	Writes the sample space Finds the probability					
2	1 to 6	Whole numbers	Place values Values of digits Writing in figures and words Forming numbers from digits	Place values of whole numbers upto millions Values of digits up to 999999 Writing in figures and words up to 9999999 Forming numbers from digits	Identifies place values Finds values of digits Writes numbers in words and in figures Forms numbers from digits	Names place values up to millions Reads numbers in words Writes expanded numbers in words Reads and writes Roman numerals		Critical thinking Problem solving	A chart showing place values and values of numbers	Identifying place values up tot six digits Working out values of digits Rounding of whole numbers Reading and writing roman numerals Converting Hindu Arabic numeral and vice versa	Mk old edition pg 28 – 57 Mk new edition 24 – 29 Functional MTC for Ugpg 17 – 43 Pri curri 87-88
3	1 to 6		Expanded notation Rounding off whole numbers Roman numerals	Expanding numbers using values, multiples of 10 place values and powers of 10 Changing from expanded to single numbers Rounding off	Expands six digit number Rounds off whole Rounds off whole numbers to ten thousands Reads and writes Roman		Guided discussion Explanation Illustration Guided discovery Group work				

				whole numbers up to 10000 Roman numerals up to 1000 Roman to Hindu and vice versa	numbers up to 1000						
4	1 to 6	Operation on whole numbers	Addition of whole numbers Subtraction of whole numbers Multiplication of whole numbers Division of whole numbers by two digit numbers	Addition of whole numbers up to six digits without regrouping Addition with regrouping Word problems involving addition Subtracting upto six digits without regrouping Subtraction with regrouping Word problems Involving subtraction] Multiplication by two digit numbers Word problems Involving multiplication Dividing	Adds whole numbers up to 6 digits without regrouping and with regrouping Solves word problems Subtracts whole numbers up to 6digits solves simple word problems Multiplies numbers up to 4 digits by 2 digit numbers Divides whole numbers by 2 digit numbers with or without remainder	Spells the word addition Pronounces Spells the word addition Use addition sentences Uses other terms correctly for subtraction such as decrease , takeaway, minus or less than in sentences	Discussion Explanation Illustrate Demonstration Inquiry Role paly	Critical thinking Effective communication Problem solving	Work Cards Counters Books	Computing problems involving addition Subtraction Multiplication Division Solving simple word problems in real life situation	Mk old edition pg 58 – 95 New Mk pg 47 – 76 Understanding MTCbk 5 pg 37 – 59 Functional MTCbk 5 pg 45 – 80 Pri five curri pg 88-89

				numbers without remainders Dividing whole with remainders Word problems involving division							
5	1 to 6	Whole numbers	Mixed operations Statistics	Use of BODMAS Finding mode of given data Working out median of given data Finding mean/average Finding range comparing numbers using symbols >, <, = comparing average and total	Uses operations of (+, -, x and ÷) to solve problems in real life situations Finds, mode, median, mean and range Compares average and total	Spells words Mode Median Average Range Use words above in sentences Interpreting problems involving four basic operation			Reading and solving real life problem		
6	1 to 6		Numbers in base five Bases 5	Grouping in base five and ten Place value of bases Writing bases in words Expanding in bases 5, Changing from bases 5, to base	Counts in base five two and seven Adds in bases 5, Subtracts in bases 5, Multiplies numbers in bases 5,	Spells words Base Expand Five Seven etc Pronounces words above	Guided discussion Demonstration Group work Explanation	Critical thinking Problem solving	Counting Computing problem involving addition, subtraction and multiplication of numbers in bases	Prepared charts Counters	

				ten. Changing from base ten to 5, addition of bases 5, Subtraction of bases 5 Multiplication							
			Finite system	Counting in figure five and seven Expressing numbers in finite five and seven Addition and subtraction using a dial Addition and subtraction without using a dial	Adds using a dial and without using a dial						
7	1 to 6	Patterns and sequences	Divisibility tests Multiples of numbers LCM Factors GCF Prime and Composite numbers	Divisibility tests of 2, 3, 4, 5, 10 Multiples of given numbers Finding LCM Finding factors of numbers Finding GCF Definition of prime and composite numbers	Forms patterns using increasing and decreasing progression Identifies triangular, square composite numbers and Prime numbers Works out LCM and	Spells words Divisibility Multiples Factors Pronounces the above words Uses above words in sentences	Discussion Questions and answer Group work Explanation	Critical thinking Creative thinking Problem solving	Work cards Charts Prepared charts	Identifying and listing types of numbers Listing factors and multiples of numbers Finding the LCM and GCF	Mk new edition bk 5 pg 77 – 92 Functional MTCpg 85 – 107 Pri five curri pg 90-91

					GCF						
8	1 to 6		Prime factorization Square numbers Square roots Sets of numbers Magic squares	Use of factor tree and ladder to prime factorise Find LCM and GCF using prime factors Finding squares of numbers Finding square roots Application of square roots Natural odd, even, prime triangular numbers Numbers sequences Operation on patterns (sum, difference, product) Completing magic squares	Uses types of numbers to form number patterns and sequences Describes and solves number patterns and sequences Completes magic squares correctly	Do	Do	Do	Do	Finding LCM and GCF using prime factorisation and solve number patterns	
9	1 to 6	Fractions	Types of fractions Equivalent fractions Reducing fractions Ordering fractions Comparing fractions	Definition of fractions Types of fractions Finding equivalent fractions Reducing fractions Ordering	Adds fractions with different denominators Reduces fractions Orders fractions	Spells words Fraction Equivalent Denominators Uses above in sentences	Explanation Illustration Question and answer Group work Guided discussion	Effective communication Problem solving	Work cards c/b illustration	Adding fractions with different denominators Answering oral questions and written	Mk new edition pg 45 – 48 Function MTCbk 5 pg 141 – 166 Understanding MTCbk 5 pg 60 – 96

			Operation on fractions	fractions Comparing fractions using >,< or = Adding fractions with different denominators Addition of whole numbers to fractions Adding mixed fractions Word problems in addition of fractions	Finds equivalent fractions					exercises Subtracting of fraction with different denominators	
10	1 to 6		Subtraction Multiplication	Subtraction fraction with same denominator Subtraction with different denominator Fractions from whole numbers Subtracting mixed fractions Mixed operation (+ & -)using BODMAS Multiplying wholes and fractions using	Subtracts fractions with different denominators Multiplies fractions by proper fractions Multiplies fractions by natural numbers Multiplies fractions by fraction	Reading and solving fractions involving subtractions reading and solving fractions involving multiplication of fractions	Guided discussion Discovery Group work Demonstration	Effective communication Problem solving		Dividing proper fraction by proper fractions Dividing fractions by natural numbers	Do

				repeated addition Multiplying fractions by natural numbers Multiplying fractions by fractions Multiply mixed fractions Application of fractions (use of "of")							
11	1 to 6		Division of fractions	Finding reciprocals of whole numbers Finding reciprocals of fractions Finding reciprocals of mixed fractions Dividing fractions using LCM and reciprocals. Division of whole numbers by fractions Division of fractions by whole numbers Dividing	Divides proper fractions by proper fraction Divides fractions by natural numbers and vice versa Interprets and solves problems in real life situation	Reading words Spells words reciprocals Reading and solving problem s involving division of fractions	Do	Do	Do	Do	Do

				fractions by fractions Dividing mixed fractions by mixed fractions Word problems involving division of fractions							
			Term	**Two**							
1	1 to 7	Decimal fractions	Place values of decimals Values of decimals Decimals in figures and words Expanding decimals Common fractions in decimals Mixed fractions as decimals Decimals to common fractions	Place values of decimals upto thousandths Values of decimals upto hundredths Decimals in figures and words upto ten thousandths Expanding decimals using values and powers Finding expanded numbers (single numbers) Changing common fractions to decimals Changing mixed	Identifying place values of each digit up to thousandth Finding values of digits in decimals Converting decimals to fractions and vice versa Adds and subtracts decimals Solves word problems	Naming place values Reading and writing values of decimals in words. Reads aloud and solves problems Involving decimals Reading and interpreting word problems	Discussion Demonstratio n Discovery Participatory learning	Effective communicati on Problem solving	Work cards Chalk board illustrations	Finding place values of digits in numbers Converting decimals into fractions Ordering decimals using a number line Adding and subtracting decimals	

				fractions to decimals Changing decimals to common fractions							
2	1 to 7		Comparing decimals Ordering decimals Operations on decimals (+, -, x, ÷)	Comparing decimal using symbols(>,< or =) Ordering decimal fraction decimals addition of Subtraction of decimals Multiplication of decimals (simple decimals) Division of decimals Word problems in decimals Rounding off decimals	Comparing decimals using (>,<, or=) Ordering fractions (decimal) Operation on decimal fraction (+, -, x,÷)	Reading and interpreting word problems involving decimals	Do	Do	Do	Answering oral and written exercises	
	1 to 10	Measurement	Money	Simple rates and proportions Buying and selling Buying price Selling price Profits and loss Shopping bill Completing bill tables	Solves practical problems related to buying and selling using Uganda Currency Uses practical examples to describe	Describe profits gain loss and other related terms Role by plays Buying and selling	Demonstrations Explanation Guided discovery	Problem solving Logical thinking Effective communication Creative thinking	Price list chart Uganda currency notes	Computing and solving problems related to profit and loss. Role play buying and selling	p.5 curri pg 100-101

				Transport charges	simple profits and loss						
	1 to 10 1 to 10		Time Time tables Distance Speed Time	Telling time in am and pm Hours to minutes and vice versa Addition and subtraction of time Finding duration Interpreting time tables Finding distance, time and speed	Tells time in 12hr clock Finds duration Solves problems related to speed, distance and time Recognizes minutes and seconds	Constructs phrases involving time Explains the meaning of am and pm Reds and tells time verbally on the 12 hours clock	Do	Effective communication Decision making Problem solving	Clock Time table Charts	Reading and telling time up to the seconds Working out duration Calculating speed Distance And time	
	1 to 12	Geometry	Parallel lines perpendicular lines Intersecting lines polygons Lines of folding symmetry Circles Triangles Hexagons Squares Rotation and revolution	Definition of parallel and perpendicular lines Drawing parallel lines intersecting liens Drawing perpendicular lines Construction of circles Constructing regular polygons in a circle Equilateral triangles Regular	Identifies and draws parallel intersecting and perpendicular lines Constructs triangles , circles and regular hexagons Describes lines of folding symmetry Draws and measures angles	Describes parallel lines intersecting and perpendicular lines polygons Labels angles Reds and writes sentences about the angels Describes the parts of circles	Do	Do	Ropes Sticks Geometry tools	Constructing lines Geometrical instruments Constructs polygons Folds various models to recognize and identify lines of folding symmetry	Mk bk 5 pg 175 – 197

				hexagon An equilateral triangle without a circle Constructing a square Types of triangles Examples of quadrilateral Other polygons Folding lines of symmetry							
	1 to 8		Angles	Angles and revolutions Angles on a compass Types of angles Measuring angles using a protractor Drawing angles using a protractor Clockwise and anticlockwise directions Complementary and supplementary angles, Interior angles	Draws and measures angles Draws diagrams to show rotation and revolutions Names examples of rotations Follows instructions to draw rotations and revolutions	Reads and spells words revolutions protractor Supplementary Writes sentences using the above words	Do	Do	Do	Constructs rotations using their toes	Do
		Data handling	Picto graph	Pictograph interpretation Drawing pictographs	Draws and recognizes scales on the	Pronounces Horizontal Vertical Axis	Discussion Guided discovery Explanation	Effective communication Critical	A chart showing bar or line graph	Drawing graphs Representing	New mkbk 5 pg 214 to 231

				Reading and interpreting tables Drawing and interpreting tables Drawing bar graphs from tables Bar graph interpretation Recording information from a bar graph into a table	horizontal and vertical axes Represents and interprets data on bar and line graph Determines and uses the average of bar and line graphs	Graphs Spells words Horizontal Vertical Axis Graphs Reads and interprets information on bar and line graphs		thinking		Interpreting data on graphs Working out average of given data	P.5 curri pg 97-98
			Temperature	Describing temperature Instruments to measure used to measure temperature Drawing the thermometer Units used to measure temperature Reading minimum and maximum temperature Word problems on temperature Reading temperature on a graph	Describes temperature Draws a thermometer Recognizes units of temperature Draws temperature bar graphs	Pronounces Temperature Degrees Spells Temperature Degrees Use temperature in sentences Reads	Group discussion Discovery Explanation	Effective communication Problem solving	Thermometer Charts	Describing temperature Reading and interpreting graphs on temperature	A new mk bk5 pg 233 – 236 Understanding MTCbk 5 pg 190 – 193

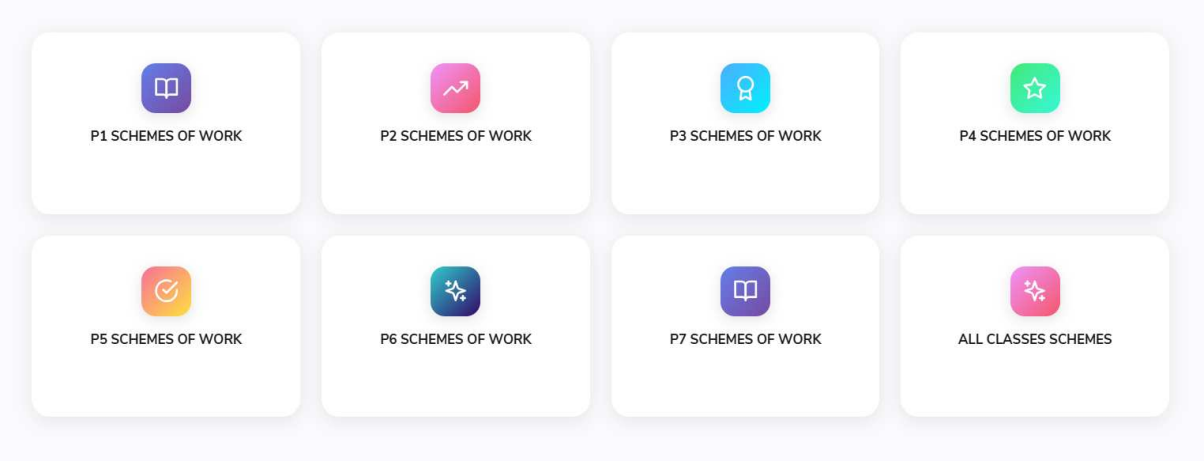
P.5 MATHEMATICS Term Three											
3		Measurements	Length, Mass and capacity	Units used to measure length Estimating length Measuring length of objects Conversion of units e.g. cm to mm and vice versa. M to cm and vice versa Km to m and vice versa	Converting mm to cm Cm to m Km to m And vice versa	Constructing sentences using mm, cm, m, km	Guided discovery Discussion Explanation	Logical thinking Effective communication Problem solving	Ruler Books Stick Metric tables	Converting cm to m M to k and vice versa	Mk new edition pg 151 – 156 Functional MTC bk5 pg 161 P.5 curri pg 94-95
4	1 to 2		Perimeter Area	Perimeter of figures Triangles, rectangles, squares, pentagon, hexagon Combined figures Area of figures triangles, rectangles, squares, combined figures Difference in area	Calculates perimeter and area of figures	Reads and interprets perimeter and area	Do	Do	Do	Calculating perimeter and area of figure	
5	1 to 10		Volume Total surface area	Volume cuboid and cubes Application of	Solving problem involving volume and	Reads and interprets word problem	Demonstration Discovery Explanation	Do	Boxes Container Cups Jerry cans	Working out problems involving volume	New mk bk5 pg 161 – 163 Understandi

			Capacity Weight (mass)	volume Total surface area of a cuboid Unity for capacity Litres to ML/cm^3 and vice versa Describing mass or weight Basic units of mass Kg to gm and vice versa	total surface area	involving volume, total surface area, capacity and mass			etc	TSA capacity and mass	ng MTC bk5 pg 161
1	1 to 10	Integers	Positive and negative integers Inverse of integers Operation on integers Ordering integers Comparing integers Simple word problems	Defining integers Identifying positive and negative integers Representing integers on a numberline Ordering integers Comparing integers Finding inverse of integers Addition of integers using a number line Subtraction of integers using a number line Forming mathematical	Draws number lines Identifies positive and negative integers Arranges integers Compares integers using >,< or = Adds integers Subtracts integers Solves simple word problems	Pronounces integers Spells the word integers Positive and negative Uses the words Greater than Less than Equal to Reads word problems involving integers	Demonstration Discussion Explanation Discovery	Problem solving Critical thinking	Charts showing into	Adding and subtracting integers Using number lines to describe negative and positive Writing integers in ascending and descending order Comparing integers using symbols	Mk new edition bk5 pg 95 – 114 Mk new edition bk 6 pg 103 – 111 Functional MTCbkpg 109 – 121

				sentences Addition of integers without a number line Subtraction of integers without a number line							
2	1 to 12	Algebra	Collecting like terms Substitution Forming algebraic expressions Solving equation Forming and solving equations	Forming algebraic expression Collecting like terms Substitution Solving equations by Subtracting Adding Word problems involving subtraction and addition Solving by dividing Solving by multiplying Word problems involving division and multiplication	Forms algebraic expressions Collect like terms Solves simple equations\ Forms algebraic equations Collects like terms Solves simple equations	Pronounces substitution Equations Spells Like terms Uses substitution and equation in sentences	Do	Do	Chalk board illustrations	Forming algebraic expressions Collecting like terms Solving simple word problems	Mk bk5 pg 271 – 283
3	1 to 10	Algebra	Removing brackets Mixed equations Equations involving squares	Solving equations involving squares Solving equations involving	Solves simple word problems Applying algebraic in volume, area, and	Pronounces Brackets Equations Squares Spells Brackets Equations	Do	Do	Do	Solving simple and problems Oral and written exercises	Mk bk 5 pg 280 – 287

				squares and square roots Application of algebraic Perimeter Area Volume	perimeter	Squares					

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