

## P.4 MATHEMATICAL SCHEME OF WORK FOR TERM TWO THE LEARNER DEMONSTRATES THE CONCEPTS OF FRACTIONS AND THEIR RELATIONSHIP IN REAL LIFE SITUATIONS

W K	P D	T H E M E	T O P I C	SUB TOPIC	COMPETENC LAGUAGE	ES SUBJECT	CONTENT	INDICATORS OF LIFE SKILLS AND VALUES	METHOD / TECHNIQUES	ACTIVITY	RESOURCE	R E M
1	1	N U M E R A C Y	F R A C T I O N S	TYPES OF FRACTI ON	Names types of fractions Reads types of fractions	Gives examples of each type of fraction  Writes types of fractions.	TYPES OF FRACTIONS Unitary fractions. Have their numerators as 1  e.g ½, ½, ½, ½, 1/11,	effective communicatio n audibility fluency confidence	Explanation  Think, pair and share	Naming fractions Writing fractions Reading fractions giving examples of each type of fractions Writing notes about fractions	Mk Mtc Book 4 syllabus bk 4 page 10 Understan ding Maths book 4 page 10	
	2			Improp er fraction s	Reads statements Pronounce the key words	Changes improper fractions to mixed numbers Divides the numerator by denominator	-Changing improper fractions to mixed numbers Example Change <sup>5</sup> / <sub>2</sub> to a mixed fraction -Divide the numerator by the denominator  2W 5/ <sub>2</sub> = 2D 5	effective communicatio n problem solving confidence	Explanation reading statements  Writing improper fractions as mixed fraction	Mk Maths Book 4 Page 92	Mk Mtc Book 4 page 92 syllabus bk 4 page 10	

3	Mixed fraction s	Expresses mixed numbers as improper		2x2 = -4 1N = 2½  Changing mixed numbers to improper fractions Use:(D X W) + N D	logical thinking	Think, pair and share  Question and answer  Think, pair and	Expressing mixed fractions as improper fractions	Understan ding Maths book 4 page 10 Mk Math book 91 Understan ding Maths
		fractions		Example Express $1\frac{1}{2} = \frac{D \times W + N}{D}$ $\frac{2 \times 1 + 1}{2}$ $= \frac{2 + 1}{2}$ $= \frac{3}{2}$	innovativeness fluency taking decision	share	Tractions	book 4 page 59- 60  Syllabus bk 4 page 10
4	Equival ent fraction s	Writes equivalent fractions  Describes and names equivalent fractions	Finds equivalent fractions of given fractions multiplies both numerator and denominator by same digit	Equivalent fractions  Find the equivalent fraction for $1 = 1 \times 2 = 2$ $3 \times 2 = 6$ $\frac{1}{3} = \frac{1}{3} \times 3 = \frac{3}{3}$ $\frac{3}{3} \times 3 = 9$ $1 = 2 = \frac{3}{3}$ $\frac{3}{3} = \frac{3}{6} = 9$	effective communicatio n problem solving fluency taking decision	Explanation Discussion Market stall	Multiplying Finding equivalent fractions	Mk math book 4 page 80 Chalk board illustration Syllabus bk 4 page 10
5	Filling in the missing number	Identifies the missing part	Finds the factor to find the missing part Fills in the box correctly	Finding missing parts of fractions Example Find the missing part in: i) $1 = 3$ $2 = 6$ $6 \div 2 = 3$ $1 \times 3 = 3$ $2 \times 3 = 6$ 2. $3 = 12$	logical thinking accuracy making choice evaluating facts	Guided discovery Market stall	Finding missing parts	Essential book 5 page 43 Mk Maths Book 4 page 82 Chalk board illustration

	6	Reducing fractions	Carries out division to get the lowest fraction  Writes the fraction to the lowest term  Quotient Dividend	Reduces the given fractions to lowest terms Finds the highest common factor	$\begin{array}{c} 5 & 20 \\ 12 \div 3 = 4 \\ 3 \times 4 = \underline{12} \\ 5 \times 4 & 20 \\ \end{array}$ Reducing fractions  Lowest terms: writing a fraction in the lowest terms is when a fraction has the and denominator a common factor as 1.  Example Reduce $\underline{4}$ to the lowest terms $\begin{array}{c} 12 \\ 4 = 4 \div 4 \text{ HCF} = 4 \\ 12 & 12 \div 4 \\ = \underline{1} \\ 3 \end{array}$	effective communicatio n problem solving confidence	explanation discussion think, pair and share	reducing fractions in the lowest terms	Mk Mats book 4 page 84 Chalk board illustration Syllabus bk 4 page 10
	7	Comparing fraction s	Names symbols used in comparison of fraction Differentiates symbols used to compare fraction		Comparing fractions symbols used to compare fractions Greater than < less than = equal Example Which is greater 5 or 3 8 4  LCM 2 8 4 2 4 2 = 2X 2 X 2 2 2 1 = 4 X 2 1 1 1 = =8  5 X 8 = 5 3 X 8 = 3 X 2 8 4 = 6 3>5 4 8	critical thinking accuracy logical thinking	Problem solving Question and answer Market stall	Naming symbols used in comparing fractions  Applying symbols correctly	Understan ding Mathemat ucs book 4 page 66- 67 Mk Maths Book4 page 86 Chalk board illustration
2	1	Additio n of fraction s with the same	Reads fractions Writes fraction	Adds fractions with the same denominators Reduces fractions	Addition of fractions with the same denominators  Example  Simplify $1+1=1+1$ $3$ $3$	effective communicatio n	Question and answer Market stall	Adding fractions with the same denominators	Essential book4 page 44 Mk maths book 4 page 86

		denomi			= 2/3	problem solving			Chalk board illustration
	2	Addition of fraction with different denominators	Writes statements	Find the LCM of different denominators  Adds fractions with different denominators	Addition of fraction with different denominators.  Example  1. Work $\frac{1}{2} + \frac{1}{2}$ $\frac{1}{2} \times 3 + \frac{1}{2} \times 2 = \frac{2}{3} \times \frac{3}{1} \times \frac{3}{3} \times \frac{1}{3} \times \frac{1}{3}$	accuracy critical thinking making choice	Question and answer Think, pair and share	Adding fractions with the same denominators	Essential book 5 page 44 Mk maths book 4 page 86 Chalk board illustration
3	3	Addition of mixed numbers		Identifies whole numbers from fractions  Adds mixed fractions with the same denominators	Addition of mixed fractions with the same denominators Example Simplify $1^{1}/_{3}+4^{1}/_{3}$ Re arrange ( $1^{1}/_{3}$ ) +( $4+^{1}/_{3}$ ) $1+^{1}/_{3}+4+^{1}/_{3}$ $1+4+^{1}/_{3}+^{1}/_{3}$ $5+\frac{1}{2}$ $3$ $5+\frac{2}{3}$ $5^{2}/_{3}$	effective communicatio n  problem solving taking decision	Explanation Discussion	Adding mixed fractions with the same denominators	Mk Math book 4 page 93 Chalk board illustration
	1		Read fractions write fractions	Changes mixed numbers to improper fractions  Finds lowest multiple  Adds mixed numbers with different denominators	Addition of mixed numbers with different denominators  Example  Add $2 \frac{1}{4} + 17/8$ $\frac{\frac{1}{4} + 17/8}{4 \times 2 + 1 + 8 \times 1 + 7}$ $\frac{9 \times 2 + 15}{4} \times 1$ $\frac{9 \times 2 + 15 \times 1}{8}$ $\frac{18 + 15}{8}$ $\frac{18 + 15}{8}$	logical thinking accuracy	Question and answer	Adding mixed fractions with different denominators	Understan ding math book 4 page 70 Chalk board illustration

5	ADDITI ON OF FRACTI ONS	Reads and interprets statements	Adds fractions in word problems	Addition of problem Example 1.John dag Mary dag <sup>4</sup> /	33 2 4 8 2 2 4 4 4 1 / 8 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	effective communicatio n	Explanation Discussion Think pair and	Reading statements Adding fractions	Mk Maths Book 4 page 88 Chalk
				of the garde $\frac{1+4}{6}$ 6 6 $\frac{1+4}{6}$	en was dug?  1+4  6  5  6	solving making choice taking decision	share		board illustration
6	Subtrac tion of fraction	Reads fractions orders fraction with same denominator	Subtracts fraction with the same denominators Reduces fractions	same demo Example Work out $3 - 1 = 3 - 1$ 4 + 4 + 4 = 2 4 4 - 1 = 4 - 3 5 + 5 3	L	effective communicatio n problem solving	Explanation Discussion Think pair and share	Reading statements Adding fractions	Mk Mathsbook 4 page 88 Chalk board illustration
7	Subtrac tion of fraction	Subtract fractions with the same denominators				logical thinking accuracy audibility	Question and answer	Subtract fractions with the same denominators	Essential book 5 page 42 Mk Math Book 4 page 89 Chalk board illustration

3	1		Reads and solves problems	Finds the lowest common multiples Applies the ;lowest	Subtraction of fractions with different denominators  Example Work out 3 - 2 4 3	effective communicatio n problem solving	Explanation Discussion	Finding lowest common multiple  Subtracting fractions with different	Mk Mathemati cs Bk 4 Page 94 - 95
				common multiple Work out subtraction of fractions with different Denominators	$ \begin{array}{rcl} (3x3) & - & (2x4) \\ (4x3) & & (3x4) \end{array} $ $ \begin{array}{rcl} 9 & - & 8 \\ 12 & 12 \end{array} $ $ \begin{array}{rcl} 9 & - 8 \\ 12 & 1 \end{array} $ $ \begin{array}{rcl} 1 \end{array} $	taking decision		denominators	board illustration
	2		Reads and writes the statements	Subtracts mixed numbers with the same denominators correctly	Subtraction of mixed numbers with the same denominators Example Subtract $4 \ 3/5 - 2 \ 1/5$ Rearrange $= (4 + 3/5) + (2 + 1/5)$ $= (4 - 2) + (3/5 - 1/5)$ $2 + 2/5$ $2^2/5$	critical thinking accuracy logical reasoning	Problem solving Question and answer	Subtracting fractions	Mk math book4 page 93 Chalk board illustration
	3		Reads and writes fractions	Changes mixed fractions to improper numbers  Finds the lowest common multiple  Subtracts mixed numbers	Subtraction of mixed fractions with different denominators $4^5/_6 - 1^{11}/_3$ $6 \times 4 + 5 - 3 \times 1 + 1$ $6  3$ $29 \times 1 - 4 \times 2$ $6  3$ $29 \times 1 - 4 \times 2$ $6$ $29 - 8$ $6$ $21$ $6$ $= 3\frac{1}{2}$	effective communicatio n -fluency confidence	Explanation	Subtracting mixed fractions into different denominators	Understan ding Math book 4 page 70 Chalk board illustration

					T				1 1
				with different					
				denominators					
	4		Reads and	Subtracts	Subtraction of fractions in word	logical thinking	Question and	Reading and	Mk maths
			interprets the	fractions in	problem		answer	writing	book4
			statements	word	Example	accuracy		statements	page 89
				problems	Andrew had 7/9 of a cake and ate				
			Writes		5/9 of it in the afternoon?	confidence		Subtracting	Chalk
			fractions		What fraction remained?			fractions	board
					<u>7 - 5</u>				illustration
					9 9				
					= <u>7 -5</u>				
					9				
					$\frac{2}{9}$				
					-				
	5	Multipli	Identifies	Multiplies	Multiplication of fractions	effective	Explanation	Multiplying	Mk Maths
		cation	numerators	fractions	Example	communicatio		fractions	book 4
		of	and	5 1	Simplify	n	Discussion		page 95-
		fraction	denominators	Reduces the	$\frac{1}{2} \times \frac{2}{3} = \frac{n \times n}{n}$				96
		S		answers	5 3 dxd	problem			a, ,,
				where	$\frac{1\times2}{5\times2}$	solving			Chalk
				necessary	5 x 3				board
					2 15	acceptance			illustration
					15	decision			
						making			
-	6		Interprets	Applies "of" in	Fraction of a group	logical thinking	Guided	Multiplying	Mk Math
	U		"of" in	fractions	Examples	logical tilliking	discovery	group fraction	book 4
			mathematics	11 actions	What is ½ of 6	accuracy	uiscovery	group fraction	page 96
			mathematics	Reduces	1/2 x 6	accuracy	Question and		page 70
			Cancels	fractions	1x3	giving	answer		Chalk
			properly	ii actions	=3	instructions	answer		board
			property		2. Find <u>2</u> of 12	mstr detrons	Think, pair and		illustration
					3		share		mustration
					2 x 12		Share		
					3				
					2 x 4				
					= <u>8</u>				
					=				
	7	Applica	Reads and	Finds the	Example	effective	Explanation	Reading and	Mk Math
		tion of	interprets	unknown	There are 14 cups in a cupboard.	communicatio	-	writing	book 5
		fraction	statements	fractions	2/7 of them are dirty and the rest	n	Discussion	statements	page 137
		S			are clean.				

			l a v .						
			Spells words	Applies fractions in word problems	a) Find the fraction for clean cups $1-\frac{2}{7}$ = $7-2$ $7-2$ $5$ 7  b) How many cups are dirty? $\frac{2}{7}$ of $14$ $\frac{2}{7}$ x $14$ $2$ x $2$ = 4 cups c) How many cups are clean $5$ of $14$ 7 2 $5$ x $14$ cups $7$ $7$ $8$ $9$ $9$ $9$ $9$ $9$ $9$ $9$ $9$ $9$ $9$	problem solving acceptance making questions		Working out fractions in word problems	Essential book 5 page 46- 47 Chalk board illustration
4	1	Decima ls	Describes a decimal fraction. Reads decimal	Expresses common fraction as decimals Divides numerator by denominator	A decimal fraction is a fraction expressed with a decimal point Expressing fractions as decimals Example Express as decimals.  1. $3 = 0.3$ $0x10 = 0.3$	logical thinking decision making asking questions	Explanation Discussion	Dividing common fractions to get decimal fractions	Mk Maths Book 4 page 100 Chalk board illustration

	l	I	1	4 = 100 - 400	<u> </u>	I	1	<u> </u>
				4 x 100 = <u>400</u>				
2		Reads the fraction Writes fraction	Expresses common fractions whose denominators is not a multiple of ten as decimals	Example Change ½ to decimal  0.5  ½ = $\frac{2}{10}$ 10 2x5 = $\frac{1}{10}$ = 0.5  Addition of decimals Example add: 1) 0.2 + 0.5 P.O.W = 0.7 0.5 + 0.2 0.7  2) 3.6 + 1.2 P.O.W = 4.8 3.6 + 1.2 - 4.8 3.4.8 + 3.6 8.4	accuracy creative thinking logical reasoning initiative new ideas	Question and answer	Expressing common fraction as decimals	Mk Maths Book 4 Page 100 Chalk board illustration
3		Reads and interprets statements Identifies place values	Adds decimals correctly Arranges whole numbers and decimals	Word problems in addition of decimals Example  1. I ate 0.2 of cake in the morning and 0.7 of it in the evening. What fraction did I eat altogether?  0.2 + 0.7	accuracy confidence	Question and answer	Reading and writing statements Adding decimals in word problems	Mk Math book 4 page 104 – 105
4	Subtrac tion of	Reads fractions	Identifies correct place values	Subtraction of decimals  Example	effective communicatio n	Explanation Guided discussion	Subtracting decimals	Mk Math book 4 page 110

				decimal s	Writes fractions	subtracts decimals with or without regrouping	Work out  4.5 - 2.3   4.5  = 2.2   -2.3  2. 9.6 - 3.7   9.6  = 5.9   - 3.7  5.9				Understan ding Mathemati cs Book 4 page 75 Chalk board illustration
e.l	5 5	G E O M E T R Y	arn	er demoi NAMIN G SHAPE S	Names solid shapes  Reads names of solid figures  Writes names of solid figures	Draws the given shapes  States properties of given shapes.  Names solid shapes  Draws solid shapes	Planes shapes: are flat surface shapes Naming shape: square, triangles, kite, rhombus, oval trapezium, parallelogram.  Properties of shapes Square: equal sides ( 4 sided) All angles area equal ( right angles Rectangle two opposite angles equal -All angles equal  Rhombus ( 4 sides) -All angles add up to 360° Opposite angles equal triangles -All angles add up to 360° -Has three angles	logical thinking effective communicatio n accuracy fluency audibility	Discussion Observation	Drawing plain diagrams  Squares -rectangles -rhombus	Understan ding MathsPri 4 page 113
	6			Solid shapes	Names solid shapes Defines solid shapes	Draws solid shapes	SOLID SHAPES Solid shapes are shapes with three dimensions i.e x, y, 3 Names: cone, cuboid, cylinder, cone, pyramid and prisms. Drawings  Trectanguar pyramid	problem solving logical thinking accuracy confidence audibility	Drawing and naming solid shapes Drawing and naming parts of solid figures	Real objects Chalk board illustration	Mk Mathsbk 4 page 128

					square triangular prism				
	7	Parts of the solid	Names parts of a solid shape Reads parts of solid figures	Identifies the number of faces edges and vertices of given shapes  Counts the number of faces, edges and vertices of the given shape	Cube face -6 edge -12  Triangular plane surface vertex edge triangular face  cylinder lane surface urved surface edge curved surface	effective communicatio n accuracy logical thinking	Drawing circles Measuring radii	A chart showing solid figures Round objects Pair of compasses	Mk Pri Math Page 135
5	1	Constru ction of plane shapes	Naming instruments and figures	Identifies the figures rectangle triangle square	Names of instruments Protractor Pair of compasses Divider Ruler Set squares	logical thinking	Explanation	Measuring	
	2			Constructing 2 dimension figures Steps taken -measures lines using	Construction	effective communicatio n accuracy	Discussion  Explanation	Constructing	c/b illustration

3			rulers or divider  Join the lines to form figures like rectangle square etc  Measuring and naming	Measuring right angles	logical thinking	Explanation	Naming	Real objects	
4	CIRCLE S	Defines a circle  Defines parts of the circle	right angles Draws circles	A circle is a simple closed figure made up of curves Drawing circles using objects Drawing circles using a pair of compasses	accuracy effective communicatio n logical thinking accuracy audibility	Discussion	Drawing Drawing circles showing parts of the circle	A chart showing parts of the circle	
5	Drawin g parts of the circle	Defines parts of the circle Reads parts of the circle Pronounces the key words		Parts of the circle Diameter: line running from edge through the center to another point.  Radius: starts from the centre to the circumference around the circle  Circumference: Is the distance around the circle.  A C AB – diameter  D D – radius  BC – circumference  DB chord	effective communicatio n logical thinking accuracy giving instructions asking question	Discussion	Drawing circles showing parts of the circle	A chart showing parts of the circle	

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	6	Naming parts of the circle	, ,		Naming parts of a circle Semi circle quadrant	effective communicatio n accuracy	Finding length of diameter	Chalk board illustration	Mk Pri Math Bk 4 page 139
	7	Relatin g diamet er to radius	Read the words Write the words	Identifies diameter Relates diameter to radius Uses formula to find radius	Minor segment sector  Diameter is twice radius  Twice means two times  D - 2r  Finding the diameter of a circle whose radius is 2cm  D = 2r  D = 2 x 5cm  D = 10cm  RADI 2cm 6cm 9cm 16cm US 10cm 4cm 10cm 10cm 16cm Geter 4cm 10cm 10cm 10cm 10cm	logical thinking initiating new ideas	Discussion  Demonstration	Chalk board illustration	Mk Pri Math Bk 4 page 139
6	1	Finding the radius of a given diamet er	Reads and writes	Relates radius to diameter Finds the length of the radius	Complete the table Radius is half the diameter half the diameter $R = ^D/_2$ The diameter of a circle is 6cm. Find its radius $R = ^D/_2$ $R = ^6/_2$ $R = ^3$ $RADI = ^4$ $RCM = ^4$ $RCM$	logical thinking taking decisions	Discussion  Demonstration	Chalk board illustration	Mk Pri Math Bk 4 page 139
	2	Lines	Identifies types of lines Draws these lines		Line: distance between two places  1. Line has no end points  2. Ray: has one end point.  3. Line segment: two end points	problem solving taking decision making choice	Illustration Observation	Draws and measures lines Text books Chalk board illustration	MK MTC BK 4 page 142

5	Measur ing lines	Writes the measurement s	Identifies lines drawn Measures line segments Measures lines Segments drawn	Measuring lines Use a ruler to measure the line segment drawn below: Step 1: place a ruler at the drawn line segment Step 2 follow the ruler up to the end of the line segment Step 3: Take the reading.  A 6cm B	problem solving making choice	Illustration Observation	Draws and measures lines Text books Chalk board illustration	MK MTC BK 4 page 142
4	Drawin g and naming lines	Reads, draws and writes	Draws line segments Names line segments drawn	Drawing line segments Use a ruler from zero move up to the required length. Put a point then join the two points.  P 5cm Q step 1 Step 2 Name according to the point	problem solving	Forming angles	chalk board illustration	Mk Mathsbk page 142
E				DEFINITION OF AN ANGLES A measure of turning between two lines that start from the same point. FORMATION OF ANGLES C B Point of intersection	effective communicatio n accuracy audibility	Demonstration	A chart showing formed angles	MK math bk 4 page 143
6	Naming angles		Names angles using letters	Naming angles formed Points of intersection is O. Angles formed are AOD or DOA	effective communicatio n	Demonstration	A chart showing formed angles	MK math bk 4 page 143

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					AOC or COA BOD or DOB	accuracy			
	7	TYPES OF ANGLE S		Identifies the types of angles Names given angles	Types of angles Right angles (90°) Complementary angles add up to 90° @ angle is 90° Two right angles form one straight angle	logical thinking accuracy confidence	Demonstration Explanation	Draw a 90ºand 180º Chalk board illustration	Mk Math Bk 4 page 144
7	1	Types of angles		Names given angles	Two right angles form one straightAngle. (suplementary angle)  180°  90°  90°	logical thinking accuracy confidence	Demonstration Explanation	Draw a 90ºand 180º Chalk board illustration	Mk Math Bk 4 page 144
	2	Measur ing given angles	Writes angles	Measuring given angles using a protractor  Identifies the scale on the protractor to be used	Measuring angles We use a proctractor to measure angles scales: inner and outer measure the following angles on page 145	logical thinking accuracy confidence			
	3	Comple mentar y angles	Define complementa ry angles	Finds complementa ry angles Finds complements of angles	Findinf complents of angles Example Finds the complement of $60^{\circ}$ Let the complement be k $K + 60^{\circ} = 90^{\circ}$ $K + 60^{\circ} - 60^{\circ} = 90^{\circ} - 60^{\circ}$ $K = 30^{\circ}  P.O.W$ $\begin{array}{r} 90 \\ -60 \\ 30 \end{array}$	effective communicatio n problem solving making choice	Measuring angles	Text books	Mk Math Bk 4 page 145

4 Finding Writes Finds missing Finding missing angles explanation	n Measuring Textbooks Mk Math
missing missing angles in a Right angles add up to 90°	angles rextbooks Mk Math
angle angles right angled x	page 145
figure 420 discussion	1 1
X0 + 420 = 900	
$X^0 + 42^0 - 42^0 = 90^0 - 42^0$ making	
$X = 48^{\circ}$ questions	
asking	
questions	
$\sqrt{x^0+x^0+30^0}=90^0$ $2x^0+30^0=90^0$	
$2x^{6} + 30^{6} = 90^{6}$ $2x = 90^{6} - 30^{6}$	
$\frac{2x - 90^{\circ} - 30^{\circ}}{2x = \frac{60^{\circ}}{30^{\circ}}}$	
5 Finding Writes angles Defines Finding supplement of angles effective	Measuring Textbooks Mk Math
supple supplementar   Find the supplement of 680   communic	atio angles book 4
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	page 145
$g^{0} + 68^{0} - 68^{0} = 180^{0} - 68^{0} g^{0} = 112^{0}$	
angles Finds making	
y angles	
Finds missing	
angles on a	
straight line	
Forming	
equations	
6 Finding Writes angles Finds missing FINDING MISSING ANGLES ON A effective	Finding Finding missing MK
angles angles on a STRAIGHT LINE communic	
of a straight liner Finding the missing angle in the n	on a straight page 199
straight line Forming figure logical thir	line
Forming logical thin	IKIIIB
g equations K <sub>0</sub> 135 <sub>0</sub> fluency	
$\frac{1}{1000}$ equatio $\frac{1000}{1000}$ $\frac{10000}{10000}$ $\frac{100000}{100000}$	
K <sub>0</sub> = 45°	

7	Polygo ns	Writes and names polygons	Defines polygons Draws polygons Identifies sides of different polygons	A polygon is a simple closed figure made up of more than two line segments Names No of sides Triangle 3 Quadrilaterals 4 Pentagon 5 Hexagon 6 Septagon 7 Octagon 8 Nonagon 9 Decagon 10	effective communicatio n logical thinking	Finding missing angles on a straight line	Finding missing angles	MK Mathsbk 5 page 199	
8 1	Types of triangle s	Names types of triangles and their properties  Differentiates types of triangles \  Draws different	Types of triangle	Types of triangle 1. equilateral( all sides are equal) 2. isosceles ( 2 sides/ angles equal) 3 obtuse angles ( one < 90°)  Equilateral right angled Isosceles triangle	logical thinking problem solving evaluating facts	Discussion  Demonstration	Finding missing angles	MK Mathsbk 5 page 199	
2	Finding m issuing angles of a triangle	Finds missing angle in any triangle Identifies triangles with 90° ( right angle)		70° 60° Y° + 70° + 60° = 180° Y° + 130° = 180° Y° = 180°-130° Y° = 50°	demonstration question and answer making questions	Finding missing angles in a triangle	Chalk board illustration	Mk Math Bk 5 page 201	

		1	I	I	300			1	l l
					300				
					□ m <sup>0</sup>				
					$M^0 + 30^0 + 90^0 = 180^0$ $M^0 + 120^0 = 180^0 - 130^0$				
					$M^0 = 60^0$				
3		Four		Defines	Quadrilaterals	problem	Drawing and		
		sided		quadrilaterals	These figures are four side/	solving	naming		
		polygo		Names types	polygons		polygons		
		n		of	Examples of quadrilaterals	making choice			
				quadrilaterals	Square – equal sides and the angles	_			
					are equal	fluency			
					-rectangle -rhombus Trapezium	audibility			
					Kite parallelogram	audibility			
4	G	Names			Naming figures	logical thinking	explanation	Drawing	Real
•	E	of 3			a cube a cuboid	Accuracy	capitaliation	2.ug	objects
	0	dimensi			A cylinder	,			,
	M	onal			Drawing solid figures				
	E	figures							
	T				43				
	R				A cuboid				
	Y								
					A cube				
5		Drawin	Writes names	Other figures		effective	Discovery	Drawing	Chalk
0		g	of polygons	Prisms,		communicatio	Discovery	Drawing	board
		shapes	- F- 78-	triangular,		n			illustration
				rectangle.					
				Pyramids					
6		Naming	Writes parts	Parts of solid		effective	Discovery	Drawing and	Chalk
		parts of	of solid	figures		communicatio		naming	board
		a solid	figures	Vertices	faces	n		C C	illustration
		figures		Faces	vontigos	fluonar		Counting faces,	understan
				Edges Angles	vertices	fluency		edges and vertices	ding page 117
				Aligies		audibility		vertices	11/
7			Measuring	Measuring		logical thinking	Discovery	Drawing solid	Understan
•			solid figures	three			_ 1000 . 01 y	shapes	ding maths
			. 6	dimensional		making choice	Explanation	F	page 118
				figures		ı	-	Cube	

					Steps taken Measure the lines and angles Join to form solid shapes		taking decision		Cuboid	Syllabus bk 4 page 13
	- 4	1			-					
						mathematics data in various for			T =	
9	1	I G R R P R H P R E A D T I I N O T T A D T I I N O T T A D T T A D T T A D T T A D D D F D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D D A D D D A D D D A D D D A D D D A D D D A D D D A D D D A D D D D A D	S	Reads and interprets the tally graph  Answers word problems	Identifies and recognizes tally marks	Tallies One two whee fout/ five six  The graph shows no of cars recorded in the a week  25 20 15 10 5 0 Mo 1. How many cars were counted on a Tuesday? 2. Find the total number of cars counted on Thursday and a Tuesday? Thurs -20 cars Tues +5 cars 25 cars	problem solving  effective communication  acceptance making questions giving instructions	Observation Explanation Discussion	Drawing tally marks  Drawing tally tables	Mk mathemati cs book 4 page 118 and 119  Syllabus bk 4 page 13

2			A lorry of		ems as sho	wn in	problem solving	Observation Discussion	Reading and interpretation	Mk maths book 4 page 120	
							effective communicatio	Accuracy	Drawing graphs	l r g	
			Item	Soda	books	sugar	n	riccuracy	Drawing graphs		
			No	6	4	0	accuracy	Asking			
			item				asking	questions			
			Show th	ie same	<u>informati</u>	on on	questions				
			the bar	<u>graph</u>							
			4								
			2								
			0	ooks Suga							
			Soud Be		EMS						

3	Interpreting bar graphs	Writes questions about the graph	Draws graph  Shows information on the graph	Study the graph and answer the questions  60 50 40 30 20 10 0 Mon Tue Wed Thu Fri Sat Days of the week 1. How many litres were collected on Monday? Ans: 20 litres  How much milk was collected on Tuesday, Thursday and Friday Tue-40+Thur50+Sat30+=120	problem solving  effective communicatio n  fluency audibility	Observation Discussion Think, pair and share	Reading and interpretation  Drawing graphs	Mk maths book 4 page 120 Syllabus bk 4 page 14
4				Picto/picture graph  MOSES  JUMA  FAHAD  JOY  Represents 10 boxes  1. How many apples did Juma sell?  2. How many boxes did Joy and Moses sell?  (5x10)+(3x10)  50 + 30 = 80 boxes	effective communicatio n confidence making questions asking questions	Reading and interpreting information  Think pair and share	A chart showing pictographs	Mk math Bk 4 Syllabus bk 4 page 14

For more schemes of work, visit www.uganda.madpath.com

5		Interpr	Reads	Making pictographs using scale.	logical thinking	Reading and	Real objects	Understan
		et	information	e.g make a pictograph for the		interpreting		ding Maths
	1 1 1	pictogr	Interprets	following information	effective	questions	Chalk board	Primary 3
		aph	information	John has 12 triangles	communicatio		illustration	page 113
	1	using a	Draws	Moureen has 15 triangles	n			
		given	pictograph	Sarah has 18 triangles				
		scale	Interpreting	scale \rep. 3triangles	fluency			
			pictograph	draw a picto graph	-			
			using the		audibility			
			given scale					
					confidence			