

MATHEMATICS SCHEME OF WORK FOR PRIMARY SIX TERM I, 2024

W K	PD	TOPIC	SUB-TOPIC	CONTENT	COMPETENCES	<u> </u>	METHODS/ TECHNIQUES	T/AIDS	LIFE SKILLS& VALUES	T/L ACTS	RE FE RE	R
					LANGUAGE	SUBJECT					NC E	A R K
	11a nd2 2	SE T S	TYPES OF SETS	Equal sets - Have same type and number of members. Example A = {2, 3, 4, 5} B = {3, 2, 5, 4} Sets A and B are equal sets. Equivalent sets - Have same number of element but may be of different type examples. A = {1, 2, 3, 4, 5} B = {a, b, c, d,e} Sets A and B are equivalent. Intersection Set (U) A set of members common to two or more given sets. Example: A = {0,2,4,6} B = {1,2,3,5} Set AnB = {2} Union Set (U) - A set of all elements contained in given sets.	A learner reads the words such as equal , equivalent intersection and union connects. Constructs oral sentences using the words above.	A learner - Counts elements in given sets Forms new sets	Question and answer Discussion Explanation	Charts Chalkbo ard illustrati on Plastic bottles	Critical thing Analitical thinking Confiden ce	A learner - Forms sets - Identifies sets	A ne w MK MT C bK 6 Pg 1 - 5	S
	23		TYPES OF SETS	Universal sets (\sum) Is the biggest set from which other small sets can be obtained. Example: A B 5 1 4 2 3 7 Find (i) $\sum = 1,2,3,4,5,6,7$ (ii) $A = \{1,2,3,5,6\}$ (iii) $B = \{1,2,3,4\}$ iv) $AnB = \{1,2,3,4,5,6\}$	A learner - Scribes a universal set Identifies members of the universal set	A learner - Reads the word universal - Uses the word universal in sentences.	Explanation Chalk board illustrations. Question and answer	Chart Chalkbo ard illustrati on	Problem solving Critical thing fluenc	A learner Draw venn diagram	A ne w MK MT C BK 6 Pg 4 - 5	

3	4				A learner - Describes complem ent of sets	A learner - Reads	the				A learner - Draws venn diagram	-do- Pg 4 - 7
			07	7856812 #CREA								
55												A ne w MK MT C pu pils BK 6 Pg 8 - 10
66		Shading and describing shaded regions	Shading and regions A B P Q	describing shaded	A learner - Identifies shaded parts Shades required regions of sets.	A learner -describes shaded region -reads questions confidence	the	Chalk board illustrations Discussion Explanation Question and answer	A chart Chalk board illustrati ons.	Problem solving Critical thinking confiden ce	A learner -Draw venn diagram -Shades required regions -Identifies shaded regions	-do- Pg 59 - 60

61	Interpreting elements in terms of numbers	A LEARNER - Discussion - Chalk - Describes - Draws venn - Explanation board informatio diagrams - Discovery illustra n Represents methods tions	Problem solving Creative thinking Apprecia tion	Drawing venn Diagram Adding numbers	A ne w MK Pri ma ry MT C 20 00 BK 6 Pg 29
		#CREATIVE PRINTERS			
72	Showing number of elements on a venn diagram	#CREATIVE PRINTERS	Problem solving Critical thinking confiden ce	Drawing venn diagram Adding numbers Subtracting numbers	Mk bk pg 29
83	Word problem in venn diagrams. With simple probability	diagrams - Represents information - Solve equations venn diagram. Find $\sum = 30$ $N(M) = 20 n(F) = 15$ $20 - x x 15 - x$	Critical thinking Problem solving Effective commun ication	Drawing venn diagram Reading and interpreting Information	A ne w MK Pri ma ry MT C 20 00 (ol d edi

			b) Find those who like both. 20 - x + x + 15 - x + 2 = 30 20 + 15 + 2 - x = 30 37 - x = 30 37 - 37 - x = 30 - 37 -x = -7 -1 -1 x = 7 If the teacher picked a pupil at random what is the chance that that pupil takes only one kind							tio n) Pgs 18 - 19
94	Wh	Place values of whole numbers	Place values of whole numbers up to millions. 1 2 3 4 5 6 7 Ones Tens Hundreds Thousands Hundred thousands Millions	A LEARNER - Read the different place values and uses them orally	A LEARNER - Write place value of the required digits .	Discussion Question and answer Explanation	Chart Chalk board illustrati on	Creative thinking Effective commun ication fluency	A LEARNER Gives the place value of digits	- do- 34 - 35
5	O L e n umb e r	Forming numeral using given digits	Forming numbers using given digits, Example: Write down the largest numeral and smallest numeral using the digits 6- , 2, 5, 9 Largest numeral = 9,652 Smallest numerals = 2,569	Hullielais	ALEARNER)Ider(tif)es digits in order RINTER	Discussion O S Question and answer Explanation	Chart Chalk board illustrati ons	Effective commun ication Critical thinking	Learners Forms numeral	Mk bk pg 36
6		Values of whole number	Values of whole numbers Find the value of 8 in the numeral 5482 Tens 8 x 10 = 80 Find the sum of the values of 4 abd 5 in the figure above (5482) Value of $4 = 4 \times 100 = 400$ $= 400$ Value of $5 = 5 \times 1000$ $= 5000$ Sum = 5000 $\frac{+400}{5400}$	A LEARNER Reads place values of digits Multiples digits by their place values	A LEARNER Identifies place values of given digits Multiplies digits by their respective place value	Discussion Explanation Questions answer	Chalk Chalk board Illustrati ons	Creative thinking Interpers onal relations hip	A LEARNER Write place value of given digit (s) Multiples numbers Adds values of different digits	-do- Pg 35 (Ne w edi tio n)
11		Expanding whole numbers	Expanding whole number a) Using values Example: 247 = 200 + 40+ 7 b) Using place values c) 247 = (2 x 100)+(4 x 10) + (7 x 1)	A LEARNER Assigns powers to digits in a numeral	A LEARNER Gives another name for powers	Discussion Explanation	A chart Chalk board illustrati		A LEARNER Expands whole numbers	A ne w MK MT

			d) Using powers (exponents) e) 247 = (2 x 10 ²) +(4 x 10 ¹) + (7x10 ⁰)	Expands whole number		Question and answer	on		Assigns power to different digits on a numeral	C BK 6 Pg 58
1 2	Wh O L e Num b E R s	Writing expanded numbers in short	Writing expanded tunifiers in Short What number has been expanded below. a) $8000 + 400 + 2\# CREA$ 8000 400 $+ 2$ $8,402$ b) $(7 \times 100) + (3 \times 1)$ 700 $+ 3$ 703 c) $(5 \times 10^3) + (2 \times 10^1) + (4 \times 1)$ $(5 \times 10 \times 10 \times 10) + (2 \times 10) + (4 \times 1)$ $5000 + 20 + 4$ 5000 20 $+ 4$ 5024				Chark Chalk board illustrati on	Critical thinking Effective commun ication	A LEARNER Expands numbers with powers Get the value for expanded parts Adds up values	Mk bk pg 59
3		Writing whole numbers in words and figures	5,024				counters Chalk board illustrati on	Effective commun ication Critical thinking Apprecia tion	A LEARNER Identifies place values of the required digit	Pg 59
	4	Rounding off whole numbers	Round off whole numbers Round off 347 to the nearest tens. H T 0 340 347 = 350 3 4 7 $\frac{+10}{350}$ Round off the following to the nearest place value in brackets. i) 34894 (hundreds) ii) 5433 (hundreds)	A LEARNER Identifies digit in the given place value. Adds borrowed digits to original digits.	A LEARNER Read the place value given correctly and uses them to round of numbers	Discussion Chalk board illustration	Chart Chalk board illustrati ons	Problem solving Critical thinking Fluency	A LEARNER Identifies the place value of the required digits	-do- Pg 27
	5	Place values of decimal	Place values of decimal numbers.	A learner Identifies decimal		Discussion Chalk board	Chart		A LEARNER Identifies the place	

		Ones thousands Hundredths Tens tenths	place values		illustration	Chalk board illustrati ons		value of the required digits	
6	Values of decimals	Values of decimal digits Find the value of 8 in the number 0. 283 Hundredths $8 \times \underline{1} = \underline{8} = 0.08$ $100 100$ Find the sum of the values of the digits 2 and 3 in 0.283. Value of $2 = 2 \times 1 = 2 = 0.2$ $10 10 \text{ M}$ Value of $3 = 3 \times \underline{1} = \underline{3} = 0.2$ $1000 1000$ Sum = 0.2 + 0.003 = 0.203	A learner Identify place value of required digits. Multiplies digits by their place	A learner Reads the new words fluently Writes figures correctly O70374 PRINTE	Counters Chart showing values -5068	Discussi on Chalk board illustrati on	Problem solving Interpers onal relations hip Fluency	A learner Write place values of digits Multiplies digits by fractions Adds decimals	
1	Expanding decimal numbers	Expanding decimal numbers. a) Using values. $0.278 = 0.2 + 0.07 + 0.008$ b) Using place values $8.125 / 5 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / $	A learner Assigns power to decimal digits Expands decimals number	A learner Describes place values of digits Uses the given correctly	068	Discussi on Explanati on Question and answer	Problem solving Effective commun ication Apprecia tion	A learner Expands decimal numbers	Mk pg 29
3	Writing decimals in words	Writing decimals in words The word "AND" implies a decimal point when writing decimals in words. Examples" 8.125 Eight and one hundred twenty five thousandths. Examples 2. 0.24 Twenty four hundredths	Identifies place values of digits	Spells the words used correctly Pronounces fluently Writes words correctly	Chart Word cards	Discussi on Guided discovery	Effective commun ication Critical thinking Fluency	A learner Writes figures in words correctly	Mk pg 29
4	Rounding off decimal numbers	Rounding off decimal numbers Round off numbers of the nearest place value in the brackets. a) 0.4 (tenths) + 0.1 0.5 b) 3.432 (hundredths) 3.43	Identifies the asked place value Rounds off correctly	Reads the questions correctly	Flash cards work cards counters	Guided discovery Discussi on explanati on	Critical thinking Effective commun ication confiden ce	Adding numbers correctly	Pg 30

			<u>0.00</u> 3.43							
	5	Hindu Arabic to roman numeral	0785681	207 /	070374	5068			Expanding hindu numerals Writing roman numerals	MT C revi sio n ha nd boo k pgs 28
	6	Roman numeral to Hindi Arabic	#CREA	ATIVE	PRINTE	RS			Expanding numbers Writing hindu numerals	-do-
Base s1	Who le num bers	Bases Review of place values Changing from non- decimal to decimal base	Place values of non-decimal bases a) 1101 _{two} , b) 1213 _{four} and others Converting from non-decimal to decimal base a) 111two to base ten b) 21three to base ten Seven to base ten Expand using the exponents of the given base and find a single value	Reads the words and structures correctly	Identifies the base given correctly Expands the numbers correctly	Discussions Guided discovery Think pair share	Charts Counters Chalkbo ard illustrati ons	Confiden ce Apprecia tion Effective commun ication	Writing new words Counting values Reading new words	Mk bk 7 pg 45
	2	Changing a decimal to non - decimal	Changing decimal base to non - decimal a) 12ten to base two b) 213ten to base five c) 34ten to base four Divide the no. using the asked base only Form groups and write on remainders from each group formed Change a non-decimal to a non	Pronounces the word fluently	Divides the figures correctly	Guided discovery Discussion Explanation	Counters Work cards	Creative thinking apprecia tion	Identifying the bases given Converting the given base to base ten	Pg 45

	3	Addition of	decimal a) 12three to base five b) 26seven to base four Convert to decimal base the finally change the answer to the asked base Addition of non-decimal base	Reads the	Adds the figures	Guided	Charts	Confiden	Reading	Mk
	3	non-decimal bases	The biggest digit in any base should always be smaller than base your operating Regroup in the given base Add: 2 4 1five b) 23four 1 2 4five 12four 0785681	answers after the correct operation	correctly Subtracts the figure correctly	discovery Think pair share Explanation	Counters	ce Apprecia tion Problem solving	new words Writing figures and new words Counting Adding numbers under a given base	bk 7 pg 47
	4	Subtraction of non – decimal base	Subtraction of non - definated bases Follow the right place values In case of borrowing, use the given base a) 32 five b) Subtract 52 seven 14 five from 66 seven	Reads the answers after the correct operation	figures correctly Subtracts the figure correctly	GDiced discovery Think pair share Explanation	Charts Counters	Confiden ce Apprecia tion Problem solving	Reading questions Subtracting figures	Pg 47
S	Who le num bers	Bases, Multiplication of non – decimal bases	Multiplication of non – decimal bases The answers written should have digits less than the base given If the figure is greater than the base, use the base to divide and write the remainder than carry the number of groups, continue normally +3 34fivex4five301five	Reads the figures in correctly in the given base Spells the words in their right way	Multiplies the figures correctly	Explanation Demonstratio n Group discussion	Charts Counters Work cards	Critical thinking Problem solving	Counting Reading new words Writing new words Multiplying the figures in the bases given	km bk 7 pg 48
		Finding	Finding the unknown. Find the value of p in $24_{six} = 42_p$	Writes the figures and words correctly	Expands and simplifies the unknown bases	Guided discovery	Counters	Problem solving Confiden ce	-counting - writing	
		unknown base	Laws of indices Simplify: 5 ⁴ x 5 ²	Reads the given words	Deduces and uses the laws of indices	Critical thinking	counters	Guided discovery	counting	
		indices								

OP E R A T I O N	Addition of whole number	Addition of large whole numbers up to 7 digits 3058768 (2) 4821481 + 431231 +3149353 3489999 7970834	Reads the new words	Arranges figures vertically Adds the numbers correctly	Discussion Explanation Question and answer	Chark Chalk board illustrati on	Problem solving Effective commun ication	Writes an exercise by adding whole numbers A arranging digits vertically Adding figures	Mk bk pg 49
N UMB E R S	Subtraction of large numbers.	a) 3241780 b) 3241784 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Reads the new words confidently Forms Aimple Structures from the give words	Arranges the digits correctly Correctly PRINTE	Explanation	Chart Chalk board illustrati on	Interpers onal relation ship	Learners -Write and exercise by adding whole numbers core	Pg 56
	Multiplication of large numbers	Multiplication by 2 and 3 digit numbers 1) 1432 b) 5640 X 132 x 15 2864 28200 4296 +5640 +1432 84600	Pronounces new words fluently Writes digits in right place values	Arranges figures vertically Multiplies figures correctly	Discussion Explanation Question and answer	Chark Chalk board illustrati on	Effective commun ication Creative thinking	Multiplying numbers correctly Writing digitsin right places	Mk bk 7p g 57
6	Addition and multiplication	Addition and multiplication on numbers and division Combined operation 1) $5 + 4 \times 3 = 5 + (4 \times 3)$ $= 5 + 12$ $= 17$	Writes numbers Reads numbers	A learner -adds numbers as per BODMAS rule	Discussion Explanation Question and answer	Chark Chalk board illustrati on	Creative thinking Interpers onal relations hip	Adds,Multip lies and divides numbers	
1		Division of whole number by long division	A learner -Identifies the 9 multiples of the divided -Divides large numbers by long division.	Learner -Read words like multiples, long Division and uses them in sentences correctly	Discussion Explanation Question and answer	Chart Chalk board illustrati on	Effective commun ication Critical thinking	Dividing the numbers correctly	MK MT C BK 6 pag e 60
2		Types of numbers 1.0dd nos 1,3,5,7,9 2.Even nos 0,2,4,6,8,10	A leaner -Identifies the different	Learner; -Reads the new words	Discussion	Chart	Effective commun ication	Identifying the different types of	-do- Pa ge

3		3.Squarenos 1,4,9,16,25,36 4. Cube no,1,8,27,64,125 5.Prime nos 2,3,5,7,11,13 6.composite. 4,6,8,9,10,12,14,15 7.Tangular nosn(n+1)eg 1,3,6,10,15,212 Consecutive numbers a)Counting numbers 1 2 3 4 5 +1 +2 +3 X, x+1, , x+2, x 7 7 8 5 b) Odd and even numbers 0 2 4 6 1 3 5 7 +2 +4 +6 +2 +4 +6 #CRE		words		Chalk board illustrati on	Creative	numbers Finding the next number in the sequence Identifying the types of numbers Forming equations	-do- Pa ge 76
4	Divisibility test for 2,3,4,5							Checking for divisibility tests Dividing the numbers	MK MT C BK 6 Pa ges
5	Factors and G.C.F							Pronouncin g words fluently Identifying the factors Finding the GCF	MK MT C BK 6 Pa ges
	Prime factorize of numbers	Prime factorization $ \begin{array}{c cccc} 2 & 12 & 12 & 2 & 2 & 2 & 3 \\ \hline 2 & 6 & (Multiplication form) \\ 3 & 3 & 12 & 2 & 1 & 2 & 3 & 3 \\ & (Subscript form) \\ 12 & = 2^2 & x 3^1 (power form) \\ 12 & = \{2_1, 2_2, 3_1\} \text{ set form} \end{array} $	Divides numbers by prime factors Writes prime factors in the different forms	Reads in words confidently Pronounces prime factors	Guided discovery Discussion	Work cards Chalkbo ard illustrati ons	Creative thinking Critical thinking	Prime factorizing numbers Writing prime factors in the different forms	MK MT C BK 6 Pa ges
	Use of venn diagram to show prime factors	Use of venn diagrams to show prime factors. F 8 PF 12 { 21, 22, 31 }	Prime factorises numbers Represents	Reads the question correctly Writes prime factors in avenn	Demonstratio n Discussion Guided	Work cards Chalkbo ard	Problem solving Effective commun	Reading questions fluently Representin	Mk bk 6 pag

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				/ 07037 E PRINT					Mk bk 6 pag es
									Mk bk pg 56
4	Application of LCM and GCF	Application oof GCF and LCM 1st number x 2nd number = LCM x GCF of two numbers are 24 and 4. Find the second number given that the first number is 12.	Compares the product of Icm and gcf with give numbers	Pronounces new words	Explanation Guided discovery	counters	Problem solving Effective commun ication fluency	Multiplying and dividing figures correctly	
Pa T T E R N s	Square roots of whole numbers	Square roots of whole numbers $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Prime factorizes the given numbers Multiplies the prime factors correctly	Writes the prime factors correctly	Discussion Demonstratio n Guided discovery	counters	Problem solving Creative thinking fluency	Prime factorizing numbers Multiplying prime factors	

d s e q u e n c e s	Square roots decimals	Square roots of decimals $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Identifies the place values given in a decimal Finds the square roots of all parts correctly	Reads the questions confidently	Guided discovery Discussion explanation	counters	Critical thinking Problem solving fluency	Identifying the place values given Finding the square roots	Mk bk pg
	Application of square numbers	$\frac{5x5}{ (2x2)x(3x3) } = \frac{5}{2x3} \frac{5}{7} \frac{5}{8} \frac{5}{6} \frac{5}{8}$ Application of square number 1. What is the square of #CRE a) 5 b) 2/3 c) 2 ½ d) 0.3#CRE 2. The area of a square is given below. Find the side length. a) 100cm² b) 9m² c) 1.44m² 25	Applies the	Reads R he questions confidently	Guided discovery Discussion Demonstratio n Explanation	Counters Illustrate chart	Logical thinking Creative thinking Confiden ce	Reading questions confidently Finding the square roots correctly	Mk bk 57 pg
	Cube roots	1.Find the cube root of 8 2.Work out the cube root of 0.064	-Factorises the given correctly	Forms simple structures from the given words.	Explanation Guided discovery	counters	Critical thinking together ness	Reading questions	

Inte gers	The number ordering and comparing integers	The horizontal and vertical number lines showing integers on the horizontal and vertical number lines. The vertical Towards the north positives Towards the south negatives The Horizontal	Reads and tells meaning of used vocabulary e.g. horizontal vertical interger	Draws and labels integers on the horizontal and vertical numberline Writes integers in ascending and descending order Compares intergers using the comparison symbols < , > or =	Guided discovery Guided discussion	Charts showing vertical and horizonta I number line	Logical flow of ideas	Drawing Ordering Comparing	Mk bk 6 pg
		Towards the right positives Towards the left negatives Writes 1, -1, 0, 5, -4, -3 and 2 in ascending order -4, -3, -2, -1, 0, 1, 5 Use <, > or = to complete below correctly -6 > 10		/ 07037 E PRINT		3			
6	Addition of integers using number line and writing addition mathematical statements on a number line	Arrows and direction on a numberline Write the integers shown on the numberline below	Read the arrows correctly Reads given integers correctly	Shows arrows on numberline Writes integers shown by arrows Adds using a number line Writes mathematical statements shown on a number line	Guided discussion Guided discovery	A chart showing arrows on a number line and addition	Analytica I thinking Effective commun ication	Drawing Writing integers	

1	Subtraction of integers using a number line and writing subtraction of mathematical statements shown on number lines	Subtract -3 - +4 using a number line -3 - +4 = -7 Write the mathematical statement shown on the number line below. $ -\frac{b+r}{3-4} + -\frac{b+r}{3-4} $	Reads the given integers correctly Reads arrows on the number line	Subtracts using the number line correctly Writes subtraction statements shown on the number line correctly	Problem solving Guided discussion	Charts showing	Logical flow of ideas	Drawing and representin g arrows	
2	Multiplication of integers using a number line	Multiplying 2 x 3 using a number line 2 groups of 3	Reads given statements correctly	Multiplier integers using a number line correctly	Guided discovery Guided discussion	Charts showing multiplic ation of integers using a number line	Critical thinking	Drawing Multiplying	
3	Addition and subtraction of integers without a number line	Multiplier rules of sgrs $\frac{1}{3}$	Reads multipliers rules of signs Reads given integers correctly	Ands and subtracts given integers Correctly RINT		A chart showing addition and subtracti on of integers	Creative thinking Logical reasonin g Logical flow of ideas	Adding and subtracting integers	
4	Multiplication and division of integers	Work out:	Reads given statements correctly	Multipliers and divides integers without a number line correctly	Guided discovery Guided discussion	Chart showing multiplic ation and division of integers	Critical thinking Logical flow of ideas	Multiplying Dividing	

5	Application of integers	The temporary was 20oF and dropped by 23oF. Find the new temperature 20oF - 23oF -3oF	Reads given information correctly	Computes relevant information and answers correctly	Problem solving Guided discussion	Board illustrati on	Creative thinking Logical reasonin	Reading Working out	
			do	do	Explanation demonstratio n	Illustrate d chart	Critical thinking	Identifying the axes correctly	Mk bk pg 59
1	Potting Co – ordinates in a graph			/ 0703 ⁻ /E PRIN ⁻		Illustrate chart Chalkbo ard illustrati on			mk bk pg 13 6

2	Plotting and forming figures on a graph	Plot the following A (3,4) B(0,1) C(5,1) and join the points. Name the figure formed. Y 1 1 1 1 2 1 1 1 2 1 3 4 3 2 1 1 2 3 4 3 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1	-Joins the points -Names the figures -Finds the areas of the figure forming	formed figuresMasters the area of the formed	Explanation demonstratio n discussion	Illustrate chart Chalk board illustrati on	Problem solving Critical thinking fluency	Joining points Naming shapes formed Finding area of figures	
3		4 3 2 1 0 1 2 3 4 5		-Reads , spells , writes and describes and describes co - ordinates graphs		Chalk board illstratio n		Plotting co - ordinates on a graph	Mk bk pg 17 6
4		When naming co – ordinates , begin with x – axis then y –axis 4 3 2 1 4 3 2 1 1 2 1 4 3 2 1 4 3 4 4 4 4 4 4 4 4 4 4 4	Identifies the co-ordinates given Plots co-ordinates given correctly	Reads the co- ordinates fluently Writes the co- ordinates correctly	Demonstratio n Explanation Guided discovery	Chalkbo ard Illustrati on		Naming co- ordinates	Mk bk 7p g 17 8

Finit e syst em	Addition of numbers in finite system	Counting numbers in finite system; Finite 4: {0 , 1 , 2 , 3} four digits used Finite 5: {0,1,2,3,4} five digits used Addition in finite system. Consider the finite given Sum should be less than one given finite Incase of equality or above the finite, form groups of the finite and write the reminder as the answer 3 + 4 =(finite 7) use a dial	Describes the digits under the given finite	Counts the digits in the given finite Adds the figures in the given finite	Think pair share Group discussion	Charts	Critical thinking Effective commun ication	Describing digits in given finite Adding the figures given	Mk bk 7 pg 17 8
6	Subtraction on numbers in finite system	Subtraction of numbers in finite system Subtract 3 - 4 =(finite 7) (3+7) - 4 = 10 - 4 = 6 :. 3 - 4 = 6 (finite 7) Variety of examples to be used Use of a dial	Reads the words and figures confidently	Identifies the finites used Subtracts the figure used correctly in consideration of the finite	Think pair share Group discussion	Charts	Critical thinking Effective commun ication	Reading the new words given Identifying the finite Subtracting the figures given	
1	Mixed operation in finite system	Addition and subtraction in finite Workout: $2^3 - 3 + 2 = $ (finite 7) Simplify: $2 + 1 - 3 = $ (finite 5) Workout: $5 - 7 + 2 = $ (finite 5) Application of BODMAS rule is used Use of a dial	Describes the integers given	Uses the rule of BODMAS correctly to solve	Demonstration Group discussion	Charts Work cards	Confiden ce Problem solving	Writing new words Counting numbers or values Using the	Mk bk 6 pg 50
2	Multiplication of numbers in finite system	Multiplication in finite system Multiply: $2 \times 3 = $ (finite 5) $2 \times 3 = 6$ $6 \div 5 = 1r1$ $2 \times 3 = 1$ (finite 5) Use of a dial	Describes the given finite	Mattiples the figure in respect to the finite given	Guide H discovery Group discussion	Chalk boar illustrati on	Problem solving creative thinking	rule of BODMAS correctly Multiplying the given values under the stated finite	Mk bk 6 pg 50
3	Division	Division in finite system Work out: $7 \div 8 = \underline{\hspace{1cm}}$ (finite 4) $(7 + 4) = 11$ $11 \div 8 = 1 \text{ r } 3$ $7 \div 8 = 3$ (finite 4)	Reads the words confidently	Divides numbers correctly	Explanation	Chalkbo ard illustrati oin	Creative thinking Problem solving confeden ce	Dividing numbers under a stated finite	Pg 48
4	Unknown value in finite system	Finding unknown value in finite system Solve for x 3x = 4 (finite 7) 4 + 7 = 11 (finite 7) 11 + 7 = 18 (finite7) 3x/3 = 18/3 X = 6 (finite 7)	Describes the given finite Pronounces words correctly	Carries out basic operations Solves the statement according to the finite	Explanation Demonstratio n Group work	Charts Chalkbo ard illustrati on	Problem solving Critical thinking	Counting values of numbers Reading new words give fluently	Pg 49

5	Finite system Word problem	Application of finite system Application of clock arithmetic of mode 7. Applied in counting days of the week 0 = Sunday	Reads the words and structure fluently Describes the mode used	Carries the basic operation correctly Solves the word problem involving the finite given	Guided discovery Group discussion Think pair share	Charts Counter Chalkbo ard illustrati ons	Confiden ce Fluency Problem solving Critical Thinking	Reading new words Writing new words Counting values Solving problem involving finite	Mk bk 6 pg 56
		TERM TWO 2017							
ALG EBR A	Collecting like terms	Example; Simplify: $r + r + n$ 3n Example Simplify: $3x + 6$ $+ \cdot x \cdot 2y$ 3x - x + 6y - 2y 2x + 4y	Learners Define like terms Collect like terms	Learners; Need write, spell new words like collect, like, term 7 / 0703	Problem solving Guided discovery	Critical thinking Creative thinking Effective mmun ication	Real objects like leaves, stones, bottle tops	Learner sort objects and collect like terms	
	Substitution	Example given that #	Leaguer; Substitute correctly Work out member correctly	Learners read; write, spell words like substitute, replace	Guident S discussion Explanation Discussion	Effective commun ication Problem solving	Real objects like leaves, stones, bottle tops	Learner substitute	
	Removing brackets	Example simplify 3(b + 4) X 3 x 6 + 4 x 3 3b + 12	Learner; Remove brackets Simplify algebraic	Learners read, write, spell new words brackets, simplify	Guided discovery Explanation Discussion Brain storming	Problem solving Critical thinking	Chalkbo ard illustrati on	Learners remove bracket simplify	
	More about removing brackets	Example Simplify $3(x + 3) - 2(x - 1)$ $3x + 9 - 2x + 2$ $3x - 2x + 9 + 2$ $X + 11$	Learners; Remove bracket Simplify algebraics	Learners read, write, spell new words brackets, simplify	Brain storming Guided discussion Guided discovery	Creative thinking Critical thinking	Chalkbo ard illustrati on	Learner remove bracket and simplify	

Indiass	Cimplify m3 y m2	Loornere	Loomono rood	Droblom	Cuitical	Challiba	Cimplify	1
Indices	Simplify m ³ x m ²	Learners;	Learners read,	Problem	Critical	Chalkbo	Simplify	
	Mxmxmxm - m ⁵	State laws of	spell, pronounce	solving	thinking	ard	indices	
	Or	indices	indices, index	Brain	Analytica	illustrati		
	$M(2+2) = m^5$	Multiply	exponent, base,	storming	I thinking	on		
	Example	power of the	product	Explanation		A chart		
	Sin/Simplify:	same base		Guided		showing		
	P5 ÷ P3			discussion		indices		
Solving simple	Example;	Learner;	Learners read,	Problem	Effective	Chalkbo	Solving	
equation	Solve $x + 3 = 9$	Solve simple	spell, pronounces	solving	commun	ard	equation	
equation	X + 3 - 3 = 9 - 3	equations	equations, like	Guided	ication	illustrati	equation	
	X = 6		• '					
	X = 6	Collect like	terms	discussion	Creative	on		
		terms		Explanation	thinking			
		correctly						
					=======================================			
Forming and	Example	Learners will	Learners spell,	Problem	Effective	Chalkbo	Learners	
solving	Moses has 8 more cows than Kato	Form	pronounce,	solving	commun	ard	practice	
equation	If both have 16 cows. How many	equations	equation solve	Guided	ication	illustrati	forming	
	cows does Moses have?	Solve		discussion	Creative	on	solving	
	Let Kato's no. of cows be y	equations		Explanation	thinking		equation	
Solving	Example	Learners:	Learners read,	Brain	Critical	Learners	A chart	
fraction	Solve	Identify	spell, pronounce,	storming	thinking	practice	showing	
equation	2p/4 + 5 = 17	equation	new words,	Problem	creative	solving	solving	
Cquation	2p/4 = +5 - 5 = 17 - 5	Solve	fraction, equations.	solving	thinking	_	fraction	
			maction, equations.	_	unnking	equation		
	2p/2 = 12.4/2	equation		Discussion		S	equation	
	$P = 6 \times 4$	with						
	P = 24	fractions						
More about	Example Okello is 8 years older	Learners;	Learners read,	Guided	Critical	Learners	A chart	
forming and	than John. If their total age is 20	Read and	spell, pronounce	discovery	thinking	practice	showing	
solving	years, how old is each person? Let	interpret	new words	Explanation	Effective	Solving	solving	
equations	John's age be k	questions	equation	Brain	commun	equation	equations	
'	K+ k + 8 = 20	Solve	•	storming	ication	s		
	2k + 8 - 8 = 20 -8	equations						
	2k/2 = 12/2	oquations						
	Okullo							
	K + 8							
	6+8							
	144years							
	John							
	6 years							
Solving	Solve:	Learners;	Learners read,	Explanation	Critical	Chalkbo	Learners	
equation	3(y + 4) = 12	Remove	spell, pronounce	Guided	thinking	ard	practice	
involving	3y + 12 = 21	brackets	words equation,	discovery	Effective	illustrati	solving	
brackets	3y + 12 - 12	Solve	brackets etc	Guided	commun	on	equation	
3.33.1010	= 21 - 12	equations	3.401.010 010	discussion	ication	"	244441011	
	3x/3 = 9/3	Squations		aisoussion	loadion			
	X = 3							

More about equation	Solve: 3(y + 4) = 12 3y + 12 = 21 3y + 12 - 12 = 21 - 12 3y/3 = 9/3 Y = 3	Learner; Collects like terms Solves for the unknown	Learners read, spell, unknown, equation	Explanation Guided discovery Guided discussion	Critical thinking Effective commun ication	Chalkbo ard illustrati on	Learners practice solving equation	
Application of algebra	The length of a rectangle is twice its width and its perimeter is 24cm Let the width be x Let the width be x Calculate the actual length and width 2(L+W) = P 2(zx + x) = 24 4x + 2x = 24 6x/6 = 24c/6 Length 2x = 2 x 4c = 8c Width X = 4	Learners; Identify equations Form equations Solve equations	Learners read, spell, equations, unknown					
Alge bra form (write) solution sets qual ity)	Give the solution set for: $x < 5$ $X = \{1, 2, 3, 4\}$ $X = \{4,3,2,1\}$	Learners; Solve inequalities Write solution sets	Learners read, write, spell new words like inequalities, solve, equations	Guided discussion Problem solving Guided discovery	Creative thinking Analytica I thinking Effective commun ication	Chalkbo ard illustrati on	Learners practice solving and writing solution set	