P.5 MATHEMATICAL SCHEME OF WORK FOR TERM THREE

E.L.O: The learner is able to solve practical problems related to utilization of Ugandan currency in everyday life.

The learner is able to use the number line to properly work out problems related to integers

The learner is able to solve mathematical problems and puzzles using the knowledge of algebra.

WK	PD	THEME	TOPIC	S/TOPIC	CONTENT	COMPETENCES		LSKILLS	METHODS	L/AIDS	REF	R E M
						SUBJECT	LANGUAGE					
1	1	Measurement	Money	Buying and selling	**Examples** Kamwine went shopping with 30,000/= and bought 2 tins of blue band at 3000 each. 4kg of rice at 2600/= per kg 3 loaves of bread at 3,300@ a) What was her total expenditure? Blue band Rice Bread 3000 2600 3300 X 2 x 4 x 3 6,000/= 10,400/= 9,900/= 10400 9,900	The learner -explains expenditure -explains change -solves given problems involving buying and selling	the learner -gives correct sentences involving new words	Logical thinking Interpretation Problem solving	Explanation Guided discussion	Price tags Shopping list 6	Mk Pri Mtc Bk 5 page 237	

					+ 6000 26,300/=							
	2			Simple rates	**Examples** 1. Find the cost of 8 books if each costs 700/=. 1 book costs 700/= 8 books will costs 700/= X 8 5600/= 2. 3 cakes cost 2400/= what is the cost of one cake 3 cake cost 2400 1 cake will cost 2400÷3 = 800/=	interprets given problems correctly	reads given problems correctly	Critical thinking Interpretation Interpretation Problem solving	Exposition Guided discovery Question and answer	Chalk board illustration	Mk Pri Mtc bk 5 Pg 238	
	3				**Examples** 5 books cost of 1,000/=. Find the cost of 12 similar books 5 books cost 1000/= 1 book will cost 1000 5 =200/= 12 book will cost 200 X 12 400 + 200 2,400/=	-interprets given problems -solves given problems	-reads given problems correctly	Logical thinking Interpretation Problem solving	Explanation Guided discovery	Chalk board illustration	Mk Pri bk 5 page 239	

					2. 10 mangoes cost 5000/= what is the cost of 7 mangoes? 10 mangoes cost 5000/= 1 mango will cost 10 = 500/= 7 mangoes will cost 500 X 7 3,500/=							
	4			Shopping bills and change	**Example** A man had sh. 7000 and bought the following 2½kg of sugar at 1200/= @ kg 3 bars of soap at 700/= per bar How much change did he have Sugar soap 2½ = 2 x 2 + 1 700 1800 2 x 3 +2100 2100 3900 3 x 600 =1800/= Change 71000 - 3900 3100/=	-interprets given problems correctly -solves given problems involving bill tables -completes given bill tables correctly	-reads given bills correctly	Critical thinking Interpretation Problem solving	Exposition Question and answer	Chalk board illustration	Mk Pri Mtc Bk5 page 240	

	5			Completing bill tables	**Examples** S father gave a shopping bill below to his children Study it and complete it. Item | Q'ty | U.C | Total b. band | ½kg | Sh.4000a | 2000 bread | 3 | kg | 2400 t leaves | loaves | Sh800per | Sh.1200 sugar | ¼kg | Sh 4800 | Sh.4800 4kg | Sh1200 | 10400 b.band ½x4000 =2000/= bread 800 x 3 2400/= 1200÷¼ 1200x¼ 4800/= b)If he gave 20,000/= to the children, what was their change 20,000 -10400 9 600/=	-observes the given information correctly -solves given problems involving bill tables -completes given bill tables correctly	-reads given bills correctly	Analysis Critical thinking Observation Problem solving	Exposition Guided discovery	Chalk board illustration	Mk Pri Mtc Bk 5 Page 241	
	6			Transport charges	Examples A taxi changes sh. 500 for a journey from Kampala taxi park to Mpererwe. How much will two people pay	solves given problems involving transport -finds the change correctly	reads problems involving transport charges correctly	Logical thinking Interpretation	Demonstration Exposition	Text books Chalk board illustration	Mk Pri Mtc Bk 5 page 243.	
					1 person pays sh. 500 2 people pay sh. 5000x 2 = 1,000/=							

					2. How much will a man, his wife and 3 children pay? 1 person pays sh. 500 5 people pay sh. 500x 5 = 2500/=							
	7			RELATING GRAPHS OF DISTANCE AND CHARGES	**<u>Example</u>** The graph below shows bus transport along Bombo – Gulu Road. (pg 244)	-solves given problems involving graphs	-reads given information correctly	Analysis Interpretation Problem solving	Demonstration Question and answer	Chalk board illustration	Mk Pri Mtc Bk 5 Page 244	
2	1			Finding profit	**<u>Example</u>** 1. Mathew bought a goat at sh 20000 and sold it at sh 27000. What profit did Mathew get? Profit = selling Price – Buying Price =27,000- 20,000 =7,000/= 2. Adeke sold a suit at sh. 150,000/= if he bought it at 80,000/= what was his profit ? Profit = S.P – B.P	finds profit correctly	reads given information correctly -constructs correct sentences using profit	Identification Problem solving Logical thinking	Exposition Explanation	Text books Chalk board illustration	Mk pri mtc bk 5 page 245	

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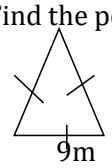
					=150,000- 80,000 =70,000/=							
	2			FINDING LOSS	EXAMPLE Loss B.P – S.P 1. A tailor bought a dress at 48,000=. Find the loss made. Loss = B.P –S.P = 48,000 -35,000 = 13,000=	-interprets given information correctly -finds loss correctly using given information	-reads given information correctly	Identification Critical thinking Problem solving	Exposition Guided discovery	Chalk board illustration	Mk Pri Mtc Bk 5 page 245	
	3			Finding the cost price when given profit and selling price	**<u>Example</u>** Nabisere sold a radio set at sh. 50,000. She made a profit of 10,000/= Find the cost price C.P = S.P – Profit 50,000-10,000 =40,000=	-studies given information correctly -finds the cost price correctly	-reads given information correctly -constructs sentences using cost price	Identification Logical thinking Problem solving	Explanation Question and answer	Chalk board illustration	Mk Pri Mtc Bk 5 P 246	
	4			Finding the cost price when given loss	**<u>Example</u>** Okech sold a goat at 15,000/= and made a loss of 3,000/=. How much did he buy price = S.P + Loss = 15,000+ 3,000/= =18,000/	-interprets given information correctly -calculates the cost	-compares loss and cost price correctly	Critical thinking Problem solving	Exposition Question and	Chalk board illustration	Mk Pri Mtc Bk 5 Pag	

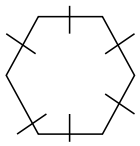
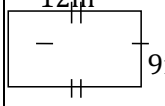
					2. Nakikoba sold 4 sacks of sim sim at 220,500/= and made a loss of 13,500/=. What was the cost price of simsim. C.P = S.P + Loss = 220,500+13,500= =234,000/=	price correctly			answer Guided discussion		e 247	
	5			METRIC CONVERSIONS	Changing cm to mm **Example** How many millimeters are in 8cm? 1cm = 10mm 8cm = 8x10 =80mm 2.Express 180cm as mm 1cm = 10mm 180x10 =1800mm	-interprets given information correctly -changes cm to mm	-reads given problems correctly	Logical thinking Problem solving Accuracy	Exposition Question and answer	Chalk board illustration	Mk Pri Mtc Bk5 Page 153	
	6				Expressing MM as CM **Examples** 1. Express 120mm as cm 10mm = 1 cm 120mm =120/10 =12cm 2. How many centimeters are in 210mm? 10mm = 1 cm 210mm = 210 10	-compares mm and cm correctly changes mm to cm correctly	reads sentences involving mm and cm	Critical thinking Problem solving	Explanation Guided discussion	Chalk board illustration	MK Pri Mtc Bk 5 Pg 153	

					21cm							
	7				Converting metres to centimeters **Example** Convert 11m to cm 1m = 100cm 11m =11x100 =1100cm	-compares metres to centimetres -changes metres to centimetres	-reads given information correctly -gives sentences involving metres and centimeter	Effective communication Accuracy	Exposition Guided discovery	Chalkboard illustration	Mk Precise Mtc Bk 5 page 154	
3	1				Change 12.8m to cm 1 m = 100cm 12.8 = 12.8 x 100 = 128 x 100 10 = 1280cm	-compares metres and centimeters correctly. changes metres involving decimals correctly	-reads given information correctly					
	2				Changing centimeters to metres **Example** Change 900cm to metres 100cm = 1m 1cm = 1 100 900cm = 1 x 900 100 1x9 =9m	-compares metres to cm correctly -changes cm to metres correctly	-reads given information correctly	Critical thinking Problem solving Accuracy	Guided discovery Exposition	Chalkboard illustration	Mk Pri Bk 5 Page 154	

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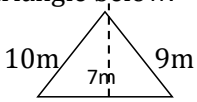
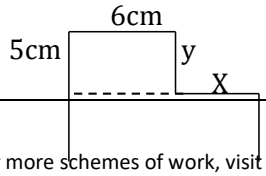
					2. Express 4520cm as m 100cm = 1m 4520cm = 1x4520 100 452 10 =45.2 metres							
	3				Converting kilometers to metres Example 1. Change 15km to metres 1km = 1000m 15km = 15x1000 15,000m 2. Convert 0.15km to metres 1 km = 1000m 0.15km = 0.15 x 1000 15 x 1000 100 = 15 x 10 150m	-changes km to metres correctly	compares km and metres orally	Critical thinking Problem solving Accuracy	Guided discussion Exposition	Chalk board illustrated	Mk pri mtc bk 5 page 155
	4				Expressing metres as kilometers **Example** Change 8000m to km 1000m = 1 km 1m = 1 1000	-changes metres to kilometres correctly	make oral sentences involving metres and kilometres	Logical thinking Problem solving	Question and answer	Chalk board illustration	Mk Pri Mtc Bk 5 pag

					8000m = 1 x 8000 1000 1x 8 = 8km 2. Convert 17,500m to km 1000m = 1 km 1m = 1 1000 17500m = 1 x 17500 1000 175 10 = 17.5km			Effective communication	Exposition		e 156
	5				Comparing metric units using >, < or = example 1. 60mm < 20cm 1cm = 20x10 -200mm 60< 200mm 2. ½km _____ 300m ½x 1000 = > 300m	compares units of length using symbols	-reads given symbols correctly -names given symbols correctly	Logical thinking	Analysis Problem solving	Chalk board illustration	Mk Pri Mtc Bk 5 Page 156
	6			Perimeter is the total distance round	Perimeter is the total distance round a polygon **Example** Find the perimeter of  9m P=s +s +s =9m+9m+9m =18m+9 =27m	-defines perimeter correctly	makes sentences involving perimeter	Identification Critical thinking	Guided discussion Explanation	Chalk board illustration	Mk Pri Mtc Bk 5 page 157

					 P= s+s+s+s (10.5+10.5+10.5+10.5+10.5)cm 21.0 +21.0+10.5 42.0+10.5 =52.5cm			Problem solving				
	7			Perimeter of rectangle and squares	**Example** Find the perimeter of the rectangle below 12m  9m P=L+W+L+W =12m+9m+12m+9m =21m+21m =42m P= s+s+s+s =(13+13+13+13)cm =52cm	-identifies rectangles correctly -finds perimeter of a given rectangle correctly	describes a rectangle correctly explains the word "perimeter"	Creative thinking Problem solving	Exposition Question and answer	Chalk board illustration	Mk Pri Mtc Bk 5 page 157	
4	1			Finding Perim	**Examples** Find the perimeter of the figure below.	finds distance around	-spells common words in	Interpretation	Exposition	Chalk board	Mk Pri Mtc	

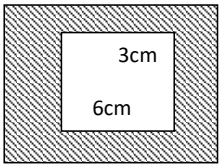
				etre of other polygin	5m 5m 9m A 5m B 4m 10m P =s+s+s+s+s+s = (10+4+5+5+5+9)m (14+10+14)m =38m	combined rectangles correctly	the lesson correctly	Critical thinking Problem solving	Question and answer Demonstration	illustration	Bk 5 page
	2			Finding the missing side of a rectangle wen given the perimeter	**<u>Example</u>** The perimetre of a rectangle is 30cm. if its length is9cm, find the width P=30cm w 9cm Let the width be w	-finds the missing side of a rectangle given perimeter	-reads given information correctly	Interpretation Logical thinking Problem solving	Question and answer Exposition	Chalk board illustration	Mk Pri Mtc Bk5 Page 158
	3			Finding te area ofof squares rectangle	Area is the total space covered or occupied by an object **<u>Examples</u>** Calculate the area of a rectangle whose length is 9cm and width 5m 5m	-interprets given information correctly -finds area of a given triangle correctly	names given triangles correctly	Critical thinking Interpretation	Explanation Guided discussion	Chalk board illustration	mK Pri Mtc Bk 5 Page 159

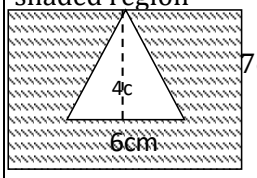
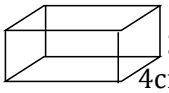
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					9m A = L X W = 9m x 5m = $45m^2$ 2. Find the area of the square below  8m 8m A = s x s =8m x 8m = $64m^2$			Problem solving			- 160	
	4			Finding the area of triangle	**<u>Example</u>** Calculate the area of the triangle below.  	names parts of a given triangle correctly -finds area of a given triangle correctly	names given triangles correctly	Effective communication Problem solving	Exposition Guided discussion	Chalk board illustration	Mk Pri Mtc Bk5 page 161	
	5			Finding the area of combined	**<u>Example</u>** Find the area of the figure below  	-recognizes combined figures -finds area of combines	reads given information correctly	Logical thinking	Demonstration Exposition	Chalk board illustration	Mk Pri Mtc Bk 5	

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				figures	3cm 9cm Step1 find the value of the unknown sides X= 9cm-6cm | y= 5cm – 3cm =3cm | =2cm Split 1 divide the figure e.g 6cm 2cm 3m 9cm A= L x W A= L x W 6cm x 2cm 9cm x 3cm =12cm^2 = 27cm^2 Total area = A + B = 12cm^2 + 27cm^2 = 39cm^2	figures correctly		Problem solving Accuracy			Page 164 - 165	
	6			Word problems involving area	**Examples** The area of a triangle is 48cm^2. If its base is 12cm, find the height. Let the height be k A =½ x b x h 48 =½ x12 xk 48 = 6k	-reads given word problems involving area correctly -finds the missing side	-reads given word problems correctly	Interpretation Logical thinking	Demonstration Exposition	Chalk board illustration	Mk Pri Mtc Bk 5 Page 165	

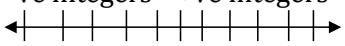
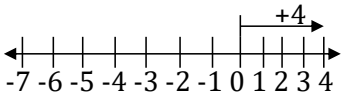
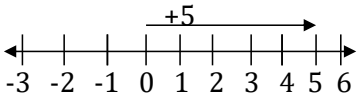
					6 6 8cm = k	of a rectangle given area		Problem solving	Guided discovery			
5	7 1			Finding area of shaded regions/ parts	**Examples** 1. Find the area of the shaded part  Area of outer Figure A = L x W 10cm x 8cm =80cm^2 area of the inner figure A = L x W 6cm x 3cm = 18cm^2 Shaded area = 80cm^2 -18cm^2 62cm^2	-recognizes given figures correctly -finds area of shaded regions in given rectangles	-names given regions correctly	observation analysis problem solving accuracy	guided discussion question and answer	Chalk board illustration	Mk Pri Mtc Bk5 page 166 - 167

5	1				2. Find the area of the shaded region  12cm Area of ▭ area of △ A = L x W A = ½xbxh 12cm x7cm ½x6cm x4 =84cm² 1x3x4 =12cm² Area of shaded part =84cm² -12cm² 72cm²	recognizes given figures correctly -finds area of shaded regions in given rectangles	names given regions correctly					
	2		Length mass capacity	Total surface area	Find the total surface area  6cm 2(LxW) + 2(L x H) + 2 (W xH) 2(6x3) + 2(6x4)+2(4x3) (2x18)+(2x24)+(2x12) 36cm +48cm +24cm 108cm²	-finds the total surface area of the cuboid writes the given units correctly	-reads and interprets the words problems involving surface area on a cuboid	recitation recognition critical thinking	Guided discussion Brain storm iest Question and	Chalk board illustration	Mk Pri Mtc Bk 5 Page 170	

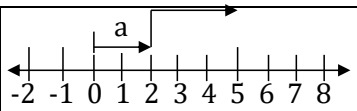
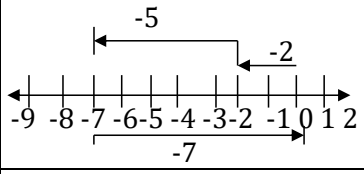
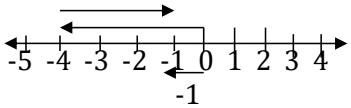
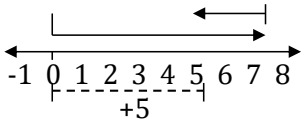
								problem solving	answer			
	3			Changing kilometers to grams	**Example** Change 3½kg to grams KG HG DG G GG CG MG 1 0 0 0 1kg = 1000g 3½= 7 x1000 2 7x 500 =3,500	-identifies the order of metallic units -changes mixed numbers to improper fractions -converts kilograms to grans and vice versa	-reads and interprets word problems involving mass	Identification Analysis Problem solving	Guided discovery Guided discussion	Text books Chalk board illustration	Mk Pri Mtc Bk 5 262	
	4			Expressing grams as kilograms	**Example** Change 300g to kg 1000g = 1 kg 1g = 1 1000 300g = 1 x 300 1000 3 10 =0.3kg 2. Express 3,250g to kg 100g =1kg =325 1g= 1kg 100 1000	-expresses gramd as kilograms correctly	-reads and interprets word problems involving mass	Creative thinking Problem solving	Guided discussion Question and answer	Chalk board illustration	Mk Pri Mtc Bk 5 Page 262	

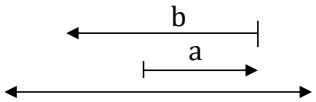
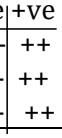
					3250 = 1 x 3250 = 3.25kg 1000							
	5			Expressing litres as millilitres	**Examples** KL Hl Dl L DL CL ML 1 0 0 0 1. Change 4l to millilitres 1L = 1000ml 4l = 4x1000 =4000ml 2. Express 0.25L as ml 1l = 1000m 0.25l = 0.25 x 1000 25 x 1000 100 =250ml	-compares litres with mililitres expresses litres as mililitres and vice versa	reads and interprets word problems involving capacity	Recognition Logical thinking Problem solving	Exposition Guided discovery	Text books Chalk board illustration	Mk Pri Mtc Bk 5 page 263	
	6			Expressing millilitres as litres	**Example** Change 5000ml as litres 1000ml = 1l 1ml = 1 1000 5000ml = 1x 5000 1000 =5l 2. Express 4,200ml as l 1000ml = 1l 1ml = 1 1000 4200ml = 1x 4200 42	-compares litres with mililitres expresses litres as mililitres and vice versa	reads and interprets word problems involving capacity	Critical thinking Guided discussion	Exposition Guided discussion	Text books Chalk board	Mk Pri Mtc Bk 5 Page 263	

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					10 =4.2l							
	7	Numeracy	Integer	showing integers on a number line	**A numberline** zero (neutral) -ve integers +ve integers  -5 -4 -3 -2 -1 0 1 2 3 4 5 We count spaces to know the movement and follow the arrows.  -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 2. Show +5 on a number line  -3 -2 -1 0 1 2 3 4 5 6	-describes a number line -draws a number line -identifies positive and negative integers	describes positive and negative integers on a number lines orally	Effective communication Exposition	Explanation Guided discussion	Chalk board illustration	Mk Pri Mtc Bk 5 Page 98	
6	1	numeracy	integer	composition of integers	use ., < or = to compare integers examples i) -5 < 5 ii) 0> -18 iii) +10 = 10 note: zero and all positive intergers are greater than all negative integers	uses symbols >,< or = to compare integers	explains less than or equal to to compare given part of integers	accuracy effective communication	exposition demonstration question and	chalk board illustration	Mk Prim Book 5 page 99	

								problem solving confidence	answer illustration			
	2			composition of Integers	Arranging integers Arrange e.g 0, -2, 2, 4, -1, 3, 5, in ascending order. ⟷ -3 -2 -1 0 1 2 3 4 5 6 Correct order. -2 -1 0 1 2 3 4 5 Note: Any number on the left of the other is smaller than the one to the right	arranges integers in order -arranges integers in ascending or descending order	-describes what "ordering of integers" is explains ascending and descending order	Effective communication Problem solving Accuracy	Exposition Demonstration Question and answer	Chalk board illustration	Mk Pri Mtc Bk 5 page 99	
	3			Inverses of integers	Inverse is the opposites of a given integers **Example** Find the inverse of +6 Let the inverse be j J + 6 =0 J+6 -6 = 0-6 J = -6	-finds the inverse of given integers correctly	-defines the term "inverse" correctly	Effective communication Problem solving	Explanation Question and answer	Chalk board illustration	Mk Pri Mtc Bk 5 page 100	
	4			Addition of intege	**Example** 1.add $^{+}2 + ^{+}3$ b	adds integers using	-describes the addition of	Critical thinking	Guided	Chalk board	Mk Pri Mtc	

				rs on a numb er line	 2. +2 + - 5 	number lines	integers on a number line	Proble m solving Accura cy	discov ery Questi on and answe r	illustr ation	Bk5 pag e 103 - 104
	5			SUBT RACTI ON OF INTE GERS ON A NUMB ERLIN E	**<u>Examples</u>** Subtact -4 — -3  2. Subtract: +7 - + 2  +7 - +2 = +5	-subtracts integers using number lines	-describes the subtraction of integers on a number line	Effecti ve comm unicati on Logical thinki ng Proble m solving	Guide d discus sion Expos ition Demo nstrat ion	Chalk board illustr ation	Mk Pri Mtc Boo k 5 pag e 105
	6			Solvin g simpl e word probl em	**<u>Examples</u>** Show these expressions using integers 1. A shopkeeper lost sh. 10. -10/= 2. Annet did not have any money 0	-solves simple word problems involving integers	-reads and interprets questions -shows the expression using integers	Interp retatio n Logical thinki ng	Demo nstrat ion Questi on and	Chalk board illustr ation	Mk Pri Mtc Bk 5 Pag

					3. Two steps forward +2 4. 3 metres below the ground -3			Problem solving Effective communication	answer		e 96	
	7			Writing mathematical statements	Write the mathematical statements  A=+3 b=-5 c=-2 Mathematical statement A + b = c +3 + - 5 –2	-recognizes the arrow -identifies the first movement that starts from zero -writes the mathematical statement	-names the drawn arrows on a number line -writes the integers represented by arrows correctly	Identifying integers Problem solving	Chalk board illustration Guided discussion	Chalk board illustration Guided discussion	Mk Pri Mtc Bk 5 Page 109	
7	1			Addition of integers	Addition of integers without a number line Note: (-) x(-)= + (+) x (+)=+ (-) x(+) = - (+) x(-) = - Work out +3 +(-)4 -8 +(+)12 +3-4 -8+12 = -1 = +4  	adds integers without number lines -multiplies signs correctly	identifies the signs properly and correctly names the signs correctly	Critical thinking Accuracy	Observation Question and answer	Chalk board illustration	Mk Pri Mtc Bk 5 page 111	

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					+			Problem solving				
	2		Integer	Subtraction of integers	Subtraction of integers without using a number line -3— ⁻3 -4 - ⁺11 -3+3 -4 -11 0 -15 ⁺27 —⁺ 5 ⁺18— ⁻12 27 – 5 18 + 12 =22 = 30 Working +ve ve ⁺7+-4 + + - - 7-4 ++ - - +3 + + + +3	-multiplies the signs to get a single sign	-identifies the signs properly and correctly	Critical thinking Problem solving	Guided discussion Explanation	Text books Chalk board illustration	Mk Pri Mtc Book 5 page 112	
	3	ALGEBRA		COLLECTING LIE TERMS	**<u>Collecting like terms</u>** e.g 5 trees + 7 trees – 3 trees = 12t -3t = 9t II 6 eggs + 8 eggs – 4eggs 6e + 8e – 4e = 14e – 4e =10e	identifies the like and un like terms together -adds and subtracts like terms	-identifies like and unlike terms -reads like terms and un like terms correctly	Identification Explanation	Question and answer	Real objects e.g pens books Chalk board illustration	Mk Pri Mtc book5 page 267	

	4			Forming algebraic Expressions	**Forming algebraic expressions** -4 more than a = a + 4 -x less than 12 = 12 –x A number added to 10 10+n 3 subtracted from a number n-3	-forms algebraic expression	-reads mathematical expression -writes the algebraic expression	Interpretation Logical thinking	Demonstration Exposition	Chalk board illustration	Mk Pri Mtc Book 5 page 270
	5			Substitution	**To substitute to replace** Given that a=2 b= 3 c=4 Find the value of the following. a)2a+3c b) 4b + c 2xa+3xc 4 x b +c 2x2 + 3x4 4 x 3 +4 16 16 c) (ab) – c d) a + b + 2c axb – c a + b+2x c (2x3) -4 2 +3 +(2 x 4) 6-4 5+8 =2 =13	-replaces the letters with their values carries out the operations	-explains substitution reads the questions correctly	Critical thinking Identifies values of letters	Guided discussion	Text book Chalk board illustration	Mk Pri Mtc Book 5 page 271
	6	Algebra	Addition	Solving equation with addition	An equation is an algebric expression Sign between **Solve the equation with addition** N+6 = 13 N+6-6 = 13 -6 N= 7 15 + x = 38	identifies the operation on given equation -uses the inverse to solve the equation	-reads the equation -interprets the given equations correctly	Interpretation Logical thinking	Explanation Question and answer	Real objects Chalk board illustration	MK Pri Mtc Bk 5 Page 272

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					15 -15 + x = 38 – 15 X= 23							
	7			Word problem	**Word problems involving addition** The sum of 2 numbers is 32 one of them is 19 find the second number. Let the number be k 19+k = 32 19-19 + k = 32 -19 K = 13	forms the equation solves the equation find the value of unknown	reads and interprets word problems involving algebra	Problem solving Effective communication	Observation Guided discussion	Chalk board illustration	Mk Pri Mtc Page 273	
8	1			Subtraction	**Solving equations with subtraction** Solve i) n – 8 = 3 N -8+8=3+8 N=11 ii) M- 83 = 47 M-83+83=47 +83 M=130 iii) D-20 = 13 D-20+20 = 13 + 20 D= 33	-identifies the subtraction operation -solves the equation by addition	-reads and interprets the given equation correctly	Problem solving Accuracy	Demonstration Guided discussion	Text books Chalk board illustration	Mk Pri Mtc book 5 page 274	
	2		Word problem	Solving word problem with	In a class, 12 pupils were absent and 48 present How many pupils are in the class? Let the pupils in class be x X - 12 = 48	solves simple word problems involving algebra	reads and interprets statemen6s involving algebra	Critical thinking	Explanation Guided	Text books Chalk board	MK Pri Mtc Book5 pag	

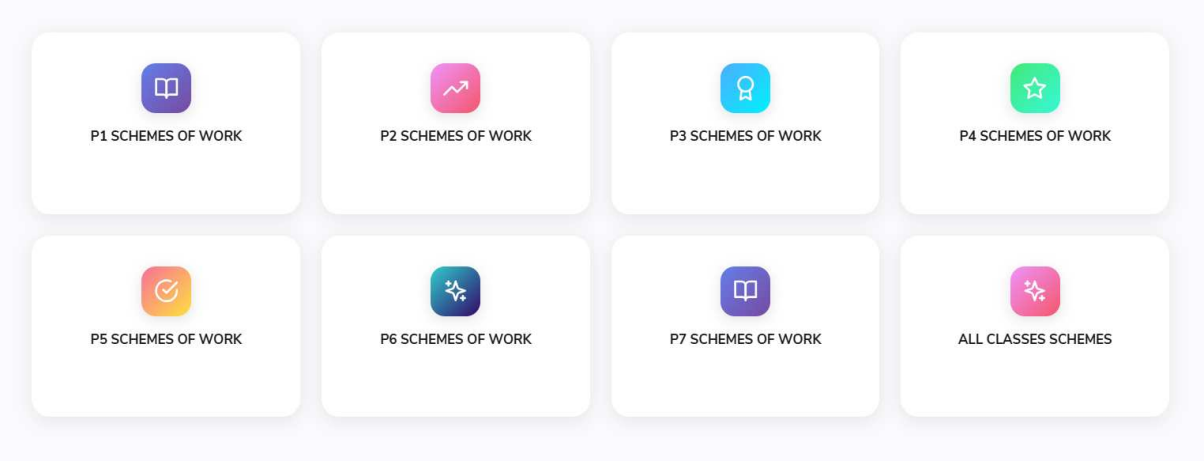
				subtraction	x-12+12 = 48+12 x = 60	-forms equations -finds the value of unknown		Problem solving	discussion	illustration	e 275	
	3		Division	Solving equation with division	**<u>Solving equations by dividing</u>** Solve 4x = 16 Divide each side by 4 <u>4</u>x = <u>16</u> 4 4 X = 4	-solves equations by dividing -divides the two sides by the	-identifies the number multiplied by the letter	Accuracy Logical thinking	Demonstration	Text books Chalk board illustration	Mk Pri Mtc book 5 page 276	
	4		DIVISION	WORD PROBLEMS WITH DIVISION	A pen costs sh 2p and a book costs sh.p. if the total cost of a book and a pen is sh. 300 Find the cost of each Pen | Book | Total 2p | P | 300 2t-p+p =300/= <u>3p= 300</u> 3 3 P = 100/= Pen = 2x100 = 200/= Book = 1 x 100 = 100/=	-forms the equations -solves word problems involving division in algebra	-reads and interprets statements involving division in algebra	Critical thinking Problem solving	Guided discussion Explanation Question and answer	Text books Chalk board illustration	Mk Pri Mtc Bk 5 page 276	
	5		Multiplication	Solving equati	Solve x + x = 10 2x = 10 Divide each side by 2	collects like terms	-reads the equations correctly	Logical thinking	Guided	Chalk board	Mk Pri Mtc	

				on with multiplication	2x = 10 2 2 X = 5 7p + p = 56 8p = 56 8 8 P = 6	-solves equations with multiplication			discussion	illustration	Book 5 page 277	
	6			Word problem	One of the 4 sides of a square is xcm. if the perimeter is 48cm, find x cm P= 4x 48cm =4x 4 4 12cm =x x= 12cm	-solves word problems involving algebra -finds the value of unknown numbers	-reads the equations correctly	Critical thinking Problem solving	Explanation	Text books Chalk board illustration	Mk Pri Mtc Bk 5 page 277	
	7		More quations	Solving more equation with addition	Solve 2x + 5 = 17 2x + 5 -5 = 17 -5 2x = 12 Divide by 2 on both sides 2x = 12 2 2 X = 6 Ii a 9 2a + 1 = 7 3a + 1 = 7 3a = 7 -1 3a = 6 3 3 a= 2	-adds the like terms -subtracts the known numbers	-identifies unknown in the given equation -finds the value of unknown	Problem solving Accuracy	Demonstration Guided discussion	Text books Chalk board illustration	Mk Pri Maths Bk Page 278	

9	1			Solving more equation with subtraction	**Solve the equation** 5a-2a-3-12 =0 3a-15=0 3a-15 +15=0+15 3a=15 3 3 a=5	collects like terms -subtracts like terms -finds the value of unknown	identifies unknown in the given equation	Problem solving Accuracy	Demonstration Guided discussion	Textbok Chakboard illustration	MK Pri Maths Bk 5 page 279	
	2		Fractions	Solving equation involving fractions	Solve a = 9 4 a= 9 4 1 Using L.C.D of 4 and 1 4xa = 9x4 4 1 a= 9x4 a= 36	changes the whole number to a fraction solves equations involving fractions -multiplies the two sides by L.C.D	-identifies the fraction -finds the value of unknown	Logical thinking Identification Problem solving	Explanation Guided discussion	Text books Chalkboard illustration	Mk Pri Maths bk 5 page 282	

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