P.4 MATHEMATICAL THIRD TERM SCHEME OF WORK

Learning outcome: The learners recognizes, describes and use money in buying and selling.

WK	PD	THEME	TOPIC	COMPETENCES		CONTENT	INDICATION OF LIFE SKILLS AND VALUES	METHODS	ACTIVITY	RESOUCES	REM
				subject	language						
1	1	MEASUREMENT	Money	identifies coins and notes	describes different coins and notes tells the price of the commodities	Revision of P.3 work about money	Creative thinking taking decision	Discovery Demonstration	Tell the prices	Class room shop	
	2		Addition of	adds money in shilling	reads units	Addition of money Example Add sh. 170 + sh. 250	Problem solving	Explanation	Adding	Mk 2000 Bk 4	

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			money	-adds correctly arranges figures	writes the correct units reads statements	Sh. 170 +Sh. 250 Sh. 420		Discussion	money		
	3		Subtraction of money	subtracts money in shillings subtracts correctly arranges figures	reads the statements interprets the statements writes the correct units	Subtraction of money Examples How much change will you get from a thousand shillings note if you spend sh. 350? Shs 1000 -shs 350 Shs 650			Subtraction of money	Chalkboard illustration	Page 150
	4		Multiplication of money	multiplies money -arranges figures in vertical order	reads the statements interprets the statements writes the correct units	Multiplication of money. Example Multiply sh 896 X 6 Shs. 5376 Find the cost of 3 loaves of bread 1 loaf costs sh 2700 3 loaves cost sh 2700 X 3 Sh. 8100	Logical thinking		Multiplication of money		Page 151
	5		Division of money	-divides money in words	-reads the statements	Division of money Divide 720÷4 180 4⟌720	Problem solving	Observation	Division of money	Text books	The winner p.4

				-arranges figures properly -divides money using long division	-interprets the statements writes the correct units	1x4 4 32 8 x 4 32 0 0x4 1200 ÷ 3 400 3 ⌊1200 4x3 12 0 0 0x3 0 Word problems Example Share 1,400 stick of chalk among 7 classes How many sticks of chalk will each class get 200/= 7 ⌊1400/= 2 x 7 14 0 0 0	Logical thinking Problem solving	Discussion		Exercise Chalkboard illustration	page 41 Mk Bk 4 Page 153
	6		Money	finds the total expenditure	-reads statements -interprets statements	Items and their costs How much does Tom pay for 2 cups			Buying and selling	Real items	

				-completes the shopping		1 cup costs 500/= 2 cups cost 500 x 2 = 1000/=				Class room shops	
	7		Shopping bills	-finds the total expenditure -completes the shopping		Shopping bills Copy and complete I have sh 500 / I buy a book for sh350 / Change Sh 500 Sh 250 Sh 150 Sh 1000 / A pen 300 / Sh 1000 300 Shs 700					
2	1 and 2		Finding profit	-finds the profit -identifies the selling price and cost price	-defines profit -reads key words	Profit on Money Example Abdul bought a shirt at sh 1000. He sold it at sh 1200. What was his profit? Profit = selling price – buying price Selling price sh 1200 Buying price sh 1000 Profit shs 200			Finding profits on money		Mk Maths book 4 page 156
	3		MONTHS WEEKS AND DAYS	identifies days of the week -identify weeks and days	reads names of days and weeks -uses names of the week to	Remember 7 days make a week 4 weeks make a month 12 month make a year 365/366 days make a year What happens on 3rd June? 3rd June is martyrs day Which date is independence?	Effective communication		Telling the given time	Wall clock A chart showing	

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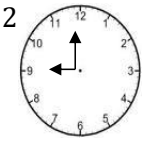
			Telling time shown on clock face		make sentences	Independence is on 9th October What happens on 8th march 8th march is women's day. -leap year has Feb – 29 days Ordinary year had Feb – 28days Tell the time on the clock face The time is 2:00o'clock 60 sec = 1 minute 60 minutes = 1 hour 24 hours = 1 day 7 days = 1 week 14 days = 1 fortnight 4 weeks = 1 month 12 months = 1 year				clock face	Page 141
	4		Show the time on the clock face	-use different types of clocks to tell time -draws clock face	-tells time in local and English language	Drawing clock faces Represents 9:00oclock on the clock face below Hour hand pointing at 9 minutes hand points at 12 Use of past It is9:00 o'clock 	Effective communication	Discussion Observation	Drawing clock faces and representing	Chalkboard illustration	The winner page 149
	5		Telling time	-uses the word past and to	-tell time in words	When the minute hand moves from 12 to 6 we use past, past means past the previous. When	Observation	Explanation	Telling time using		The winner

			in words	-draws clock faces	-reads and interprets time	the minute hand moves past 6/30 min, we use "to"			"to" and past 60t" Telling time in words		page 148
	6		Changing hours into minutes	-changes hours to minutes -multiplies correctly	-reads hours and minutes -writes hours in minutes	Relating hours to minutes 1 hour = 60 min 2hrs =60 x 2 = 120mins Change 3½ hours 1 hr = 60mins 180min 3hrs = (3 x 60)+½hrs = 1/3 + 20min 200min					Page 149
	7		Minutes to hours	changes minutes to hours -relates minutes to hours -applies division	-reads hours and minutes -writes hours and minutes	Conversion of minutes to hours Change 180 minutes to hours 60 min = 1 hour 180min = (180÷60)hr 3 method 2 60 ⌐180 60 min = 1 hr 180 1 min = 1 hr 000 60 min =3 hours 3 180 min = 1hr x 180min 60 min =(1 x 3)hrs	Critical thinking Problem solving	Explanation Discussion Question and answer	Changing minutes to hours	Chalk board illustration	The winner bk 4 page 149

						=3 hrs					
3	1		Adding time	-adds time without regrouping -arranges hours and minutes correctly	-pronounces the key words correctly -writes hours and minutes correctly	Adding time in hours and minutes Add Hrs Min Hrs Min 7 20 4 25 +2 15 5 15 9 35 + 3 05 12 45 = 1hr = 60 min		Explanation Observation	Adding time in hours and minutes with regrouping	Chalkboard illustration	Mk Mtc Bk4 page 165

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	2		Word problem	-adds time in words -arranges hours and minutes	-reads statements -interprets statements -writes hours and minutes	Addition of time in words A taxi driver tok 2 hrs 40 minutes to driver from Kampala to Masaka and 1 hour 45 minutes from Masaka to Kabale. How much time did he take altogether? Hrs Min 2 40 +1 45 4 25 85 1hr = 60min 1 60 | 85 - 60 25	Effective communication Problem solving	Explanation Problem solving	Reading and comprehending statements Adding time in word problems	Text book Chalk board illustration	Pg 167
	3		Subtraction of time Subtraction of time with regrouping	-subtract time without regrouping -changes hours to minutes	reads statements -interprets statements -writes hours and minutes	Subtraction of time Example Subtracts Hrs Min Hrs Min 9 50 14 30 -2 20 - 6 15 7 3 8 15 Hrs Min 1 hr = 60 min 8 00 -5 35 - 60 2 25 35 25	Critical thinking Problem solving	Discussion Explanation	Subtracting time in hours and minutes		Mk Pri Mtc Bk 4 page 168

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	4		Word problem	-subtracts time in word problems -changes hours to minutes	reads statements -interprets statements -writes hours and minutes	Subtraction of time Example Bamwine took 3 hours 25 minutes to move from home to town. If hr took 1 hr 35min to get a taxi for the rest of the journey, how much time did he spend in the taxi Hr Min 3 25 + 60 = 85 1 35 35 1 50 50	Critical thinking Problem solving	Explanation Discussion		Chalk board illustration	MK Maths book 4 page 170 -171
	5		Multiplication of time	-multiplies time correctly -relates units used in time	reads statements -interprets statements -writes hours and minutes	Multiplication of time Hrs Min 1 3 25 2 5 60⌐75 X 3 x 33 60 7 15 7 5 15min			Multiplies time hours and minutes		Mk Maths Bk 4 page 170-171
	6		Division of time	-divides time correctly -divides using long division	-reads time in English -writes time in hour and minutes -interprets the statements	Division of time Divide 9 hours 30 minutes by 3 Hrs Min 3 10 3⌐9 30 3x3 = 9 1x 3 = 3 = 3 hrs 10 min 3 0 = 3 hrs 10 min	Effective communication	Question and answer	Dividing time in hours and minutes		Mk Maths bk 4 page 172

3	**7**	MEASUREMENT	Length	-names units used to measure length -measures length	-reads units of length -writes units of length correctly	-Units used to measure length Kilometre (km) Hectometre (Hm) Decametre (Dm) Metre (m) Decimetre (dm) Centimere (cm) Millimetre (mm) -measuring and recording measurements of given objects.	Logical thinking Problem solving Effective communication	Demonstration Explanation Observation	-Naming units used to measure length -Recording measurements -Measuring objects	Metre ruler -A chart showing units of length. -foot ruler	Understanding Maths book 4 page 158
Learning outcome: The learner uses standard measuring instruments and converts units of measures. **TOPICAL TESTS**											
4	**1**	MEASUREMENT		-relates metres and centimetres -changes metres to centimetres	-reads units of length -writes units of length correctly	-Relating metres and centimetres 1m = 100cm -changing metres to centimetres Example Change 3 metres to centimetres. 1m= 100cm 3m = 3 x 100cm = 300cm	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	Changing metres to centi metres	-metre ruler -Foot ruler -c/board illustrations	Mk Maths book 4 page 186

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	2	MEASUREMENT	Length	-changes centimetres to metres -divides to change centimeteres to metres	-reads units of length -writes units of length correctly -interprets the statement	Changing centimetres to metres Example Change 500cm to metres 100cm = 1m 1cm = $\frac{1m}{100}$ 5 500cm = $\frac{1}{100} \times \frac{500}{1}$ = 1 x 5 = 5ms	Logical thinking Problem solving Effective communication	Explanation Question and answer	Changing centimetres to metres	Chalk board illustrations	Mk Maths book 4page 186
	3	MEASUREMENT		-expresses length in metres and centimeters =adds metres and centimetres	-reads units of length -writes units of length correctly	Expressing length n metres and centimetres. Example Express 120cm as metres and centimetres. 120cm=(100+20)cm = $\frac{100^1}{100^1}$ + 20cm = 1m + 20cm =1m 20cm	Logical thinking Problem solving Effective communication	Discussion Guided discovery	Expressing length in metres and centimetres	c/board illustrations	Mk Maths book 4 page 187
	4	MEASUREMENT	Length	-adds netres and centimetres -arranges metres and sentimetres	-reads units of length -writes units of length correctly	Addition of metres and centimetres Example Add: m cm 1m = 100cm 3 4 9 + 2 1 5 5 6 4	Problem solving Logical thinking Effective communication	Explanation Discussion Question and answer	Adding in metres and centimetres	c/board illustrations	Mk Maths book 4 page 187

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	5	MEASUREMENT	Length	-arranges metres and centimeters correctly -adds metres and centimeters	-reads and interprets -writes units of length	Addition of metres and centimetres in word problems. Example Mugisha slashed 4m 75cm of a path. Otim slashed 3m 65cm long. What total length of the path did they slash? M c m 4 7 5 + 3 6 5 8 4 0 140 100⟌140 (01) -100 40 1m = 100cm	Problem solving Logical thinking Effective communication	Explanation Discussion Question and answer	Reading and interpreting statements - adding in metres and centimetres	c/board illustrations	Mk Maths book 4 page 188
	6	MEASUREMENT	Length	-subtracts in metres and centimetres -arranges units correctly	-reads and interprets the statement -reads the key words correctly	Subtraction of metres and centimetres Subtract: 5m 20cm -2m 10cm M cm 1m = 100cm 5 2 0 - 2 1 0 3 1 0 Subtraction of metres and centimetres in word problems. Example Joshua had a string measuring 6m 40cm and he cut off 1m 20cm. What is the length of the string that remained? M cm 1m = 100cm 6 4 0 - 1 2 0 5 2 0	Problem solving Logical thinking Effective communication	Explanation Discussion Question and answer	Answering written questions about subtraction in metres and centimetres Reading statements	c/board illustrations	Mk Maths book 4 page 188 and 189

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	7	MEASUREMENT	Length	-multiplies in metres and centimeters -arranges units correctly	-reads and interprets the statement -reads the key words correctly	Multiplication of metres and centimetres Example M cm 1 8 0 X 2 3 6 0 160 1m = 100cm DIVISION OF METRES AND CENTIMETRES 01 100⟌160 - 100 60	Problem solving Logical thinking Effective communication	Explanation Discussion Question and answer	Answering oral and written questions about multiplication of metres and centi metres	c/board illustrations	Mk Maths book 4 page 190
5	**1**	MEASUREMENT	Length	-changes kilometres to metres -multiplies to change KM to M	-reads and interprets the statement -reads the key words correctly	Changing kilometres to metres. Example Change 7km to ms 1km = 1000m 7km = 7 x 1000m = 7000ms	Problem solving Logical thinking Effective communication	Explanation Discussion Question and answer	Changing kilometres to metres	c/board illustrations	Mk Maths book 4 page 195

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	2	MEASUREMENT	Length	-changes kilometres to metres in word problrms	-reads and interprets the statement -writes the units correctly	-changing kilometres to metres in word problems. Example Jamillah walked 5km from Kanyanya to Kampala. What distance was this in metres? 1km = 1000m 5km = 5 x 1000m = 5000m	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	-Reading and interpreting statements -Writing kilometres as metres	c/board illustrations	Mk Maths book 4 page 195
	3	MEASUREMENT	Length	-changes metres to l=kilometres in word problem =s	-reads and interprets statement -writes the correct units	Changing metres to kilometres Example Change 2000m to km 1000m = 1km 1m = $\frac{1Km}{1000}$ 2 2000m = $\frac{1}{1\cancel{000}}$ x $2\cancel{000}$ = 1 x 2 = 2km	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	Changing metres to kilometers	c/board illustrations	Mk Maths book 4 page 192-193

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	4	MEASUREMENT	Length	-changes metres to kilometres in word problems	-reads and interprets statement -writes the correct units	Changing metres to kilometres in word problems Example A car travelled 10,000 metres. What distance did it cover in kilometers? 1000m = 1km 1m = $\frac{1}{100}$ 1000m = $\frac{1}{1000}$ x 10000 1 x 10 = 10km	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	-Reading and interpreting statements -Changing metres to kilometres	Chalkboard illustrations	Mk. Maths book 4 194
	5	MEASUREMENT	Length	-relates kilometres to metres -adds kilometers and metres correctly	-reads and interprets statement -writes the correct units	Addition of kilometres and metres Example Add: Km m 1km =1000m 8 400 + 2 600 11 000 1000	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery	Answering oral and written questions about addition of kilometers and metres.	c/board illustration	MK Math book 4 page 196-197

	6	MEASUREMENT	Length	-adds kilometres and metres in word problems	-reads and interprets statement -writes the correct unit	Addition of long distances Example It is 4km 250m from Bwaise to Mpererwe and 5km 650m from Mpererwe to Gayaza. Find the distance from Bwaise to Gayaza. Km m 4 250 + 5 650 9 900	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery	Adding in kilometers and metres in word problems.	c/board illustrations	Mk Maths book 4 page 196-197
	7	MEASUREMENT	Length	-work out numbers involving subtraction in kilometres and metres-arranges units correctly	-reads and interprets statement -writes the correct unit	Subtraction in kilometers and metres Example Subtract: Km m 7 400 - 2 100 5 300	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery	Subtracting in kilometers and metres	c/board illustrations	MK Maths book 4 page 198

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6	**1**	MEASUREMENT	Length	-subtracts kilometres and metres in word problems -arranges km and m correctly	-reads and interprets statements -writes the units correctly	Subtracting kilometres and metres in word problems. Examples i) A man travelled a distance of 28km 400m by bus. If he travelled 7km 250m on foot, what distance did he travel by bus? Km m 28 400 1km = 1000m - 7 250 21 150 ii) Subtract12km 300m from 15km 700m. km m 15 700 1km = 1000m - 12 300 3 400	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	-Reading and interpreting statements -Answering Oral and written questions about subtraction of kilometers and metres in word problems	c/board illustrations	Mk Maths book 4 pages 198-199

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	2	MEASUREMENT	Length	-multiplies long distances in kilometres and metres	-reads and interprets statements -writes the units correctly	Multiplication of long distances Examples Multiply 1) km m 8 350 X 3 25 50 1050 2) km m 35 580 X 6 213 480 3480 1km = 1000m 1km 1000 / 1050 — 1000 = 50m 3 / 3480 — 3000 = 480	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery	Multiplying of long distances in kilometres and metres	c/board illustrations	Mk Maths Book 4 page 200
	3	MEASUREMENT	Length	-divides long distances in kilometres and metres -arranges units correctly	-reads and interprets statements -writes units correctly -spells the key words correctly	Division of long distances Example i)Divide 25km 40m by 4km 6 260 4 / 25 40 - 24 1km 1km=1000m + 40m 1040 266 4/1040 - 8 24 24 0 0 - =6km 260m	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	Dividing long distances in kilometers and metres	c/board illustrations	Mk Math book 4 page 201

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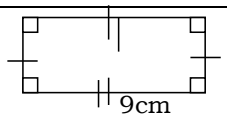
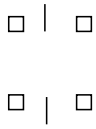
	4	MEASUREMENT	Perimeter	-finds the perimeter of rectangles -applies properties of rectangle in finding perimeter	-reads and interprets statements -writes units correctly -spells the key words correctly	*Definition of perimeter -Perimeter is the total distance round of a given figure. *How to find perimeter -add all sides of a given rectangle *Finding perimeter of a rectangle. Example Find the perimeter of the figure below.	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery	-defining perimeter -finding perimeter of rectangles	A chart showing a rectangle and its properties c/board illustrations	
	5			-finds the perimeter of rectangles -applies properties of rectangle in finding perimeter	-reads and interprets statements -writes units correctly -spells the key words correctly	 P =add all sides = L+ W+L + W =9cm +6cm+9cm+6cm =15cm+ 15cm = 30cm					



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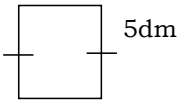
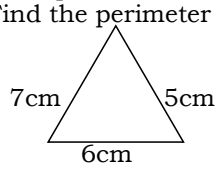
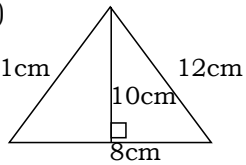
	6	MEASUREMENT	Perimeter	-finds the perimeter of a square -applies properties of a square	-reads and interprets statements -writes units correctly -spells the key words correctly	Finding perimeter of a square Example Find the perimeter  P= Add all sides = S+S+S+S =5dm+5dm+5dm+5dm =10dm+10dm =20dm	Logical thinking Problem Solving Effective communication	Demonstration Observation Explanation Question and answer	Finding perimeter of a square	A chart showing a square and its properties	
	7	MEASUREMENT	Perimeter	-finds the perimeter of a triangle -applies the properties of a triangle	-reads and interprets statements -writes units correctly -spells the key words correctly	Finding perimeter of a triangle. Example Find the perimeter of: i)  ii)  	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery	Finding perimeter of different types of triangles	A chart showing different types of triangles	

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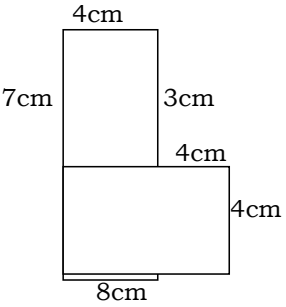
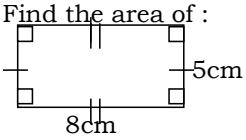
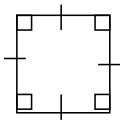
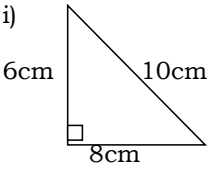
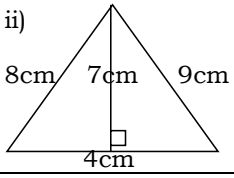
7	**1**	MEASUREMENT	Perimeter	-finds the perimeter of irregular shapes -finds the missing sides by using the given sides	-reads the units used. -writes the units correctly	Find perimeter of irregular shapes Example Find the perimeter of the shapes below.  P= add all sides =8cm+4cm+4cm+3cm+4cm+7cm =12cm +7cm+11cm =19cm + 11cm = 30cm	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery Question and answer	Finding perimeter of irregular shapes.	A chart showing irregular shapes	
	2	MEASUREMENT	Area	-identifies the drawn shape. -identifies the length and width of the rectangle -multiplies the length and width and writes units correctly	-reads the units used. -writes the units correctly	*Definition of area. Area is the measurement of the surface. -It is measured in square units. *Finding area of a rectangle. Example Find the area of :  A= Lx W = 8cm x 5cm = 40cm^2	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery Question and answer	-Defining area -Finding area of given rectangles	c/board illustrations	

	3	MEASUREMENT	Area	-identifies the shapes of a square -applies the properties of a square	-reads the units used. -writes the units correctly	Finding area of a square Example Find the area of the given shape. 6dm  A= S x S =6dm x 6dm = 36dm^2	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery Question and answer	Finding area of a square by answering oral and written questions	c/board illustrations	
	4	MEASUREMENT	Area	-identifies the shapes of a square	-reads the units used. -writes the units correctly	Finding area of a triangle. Examples Find the area of these triangles i)  ii)  	Logical thinking Problem solving Effective communication	Explanation Discussion Guided discovery Question and answer	Finding area of given triangles	c/board illustrations	

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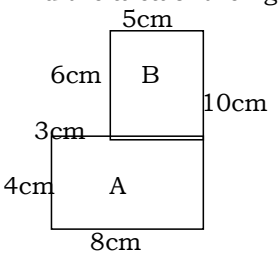
	5	MEASUREMENT	Area	-identifies the shapes of irregular shapes -multiplies the sides to find area of each shape -adds the two areas	-writes the units given -separates the shapes	Finding area of irregular shapes Example Find the area of the figure below.  Area of shape A=LxW =8cmx4cm =32cm² Area of shape B = Lx W = 6cm x 5cm = 30cm² Total Area 32 cm² + 30 cm² 62cm²	Logical thinking Problem solving Effective communication	Explanation Discussion Observation Question and answer	-Identifying shapes -separating shapes -Finding area of irregular shapes	A chart showing irregular shapes c/board illustrations card board	

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		MEASUREMENT	Capacity			Units used in measuring capacity Kilolitre (KL) Hectolitre (HL) Decalitre (DL) Litre (L) Decilitre (dl) Centilitre (cl) Millilitre (ml)	Logical thinking Problem solving Effective communication	Observation Demonstration Explanation Discussion Question and answer	- Listing items measured in capacity - naming units used to measure capacity.	Water milk - c/board illustrations	Understanding Maths book 4 page 180-187 A New Mk Maths book 4 pg 222
	6	MEASUREMENT	Capacity	-relates two different units -changes the litres to millilitres -multiplies the given litres by 1000	-reads the order of units -writes the units correctly	Changing litres to millilitres Example Change 5 litres to millitres 1l = 1000ml 5l = 5 x 1000ml = 5000ml	Logical thinking Problem solving Effective communication	Observation Demonstration Explanation Discussion Question and answer	Answering oral and written questions Expressing litres as millilitres	c/board illustrations	Understanding Maths book 4 pg 191-192

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	7	MEASUREMENT	Capacity	-relates two different units -changes mililitres to litres	-reads and interprets the statement -reads the new words correctly	Changing millilitres to litres Example Change 6000 millilitres to litres 1000ml = 1L 1ml = $\frac{1L}{1000}$ 6000ml = $\frac{1}{1000} \times 6000$ = 1 x 6 = 6L	Logical thinking Problem solving Effective communication	Observation Demonstration Explanation Discussion Question and answer	Writing millilitres as litres	c/board illustration	Understanding Maths book 4 page 191-192
8	**1**	MEASUREMENT	Capacity	-relates a litre and half litre -finds how many half litres are in a litre	-relates and reads litres -reads new words -interprets statements	Relating a litre and a half litre. Examples 1 litre= ½ L + ½ L = 2 half litres 2litres= (2+2)half litres = 4 half litres	Problem solving Logical thinking Effective communication	Demonstration Observation Explanation Question and answer	Measuring items in relation to litre and	Real objects c/board illustrations	Mk Maths book 4 page 223 Understanding Maths bk. 4 page 189

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	2	MEASUREMENT	Capacity	-relates a litre and quarter litres in a litre	-reads new words -spells new words -writes new words	Relating a litre and a quarter litre Examples 1litre= ¼ L+ ¼ L + ¼ L + ¼ L = 4 quarter litres 2 litres= ¼ L + ¼ L+ ¼ L + ¼ L+ ¼ L+ ¼ L+ ¼ L+ ¼ L 8 quarter litres	Problem solving Logical thinking Effective communication	Demonstration Observation Explanation Question and answer	Finding quarter litres in given litres	Real objects c/board illustrations	A New MK Maths book 4 page 224 Understanding Mathematics book 4 page 189
	3	MEASUREMENT	Capacity	-adds litres and half litres correctly -arranges litres and half litres correctly -changes litres to half litres	-reads new words -spells new words -writes new words	Addition of litres and half litres Example Add 1 ½ litres+ 2 ½ ls 1 ½ + 2 ½ 1+2+(½ + ½) 1+2+$^{2}/_{2}$ $\frac{1+1}{2}$ 3+1 = $\frac{2}{2}$ =4litres = 1	Problem solving Logical thinking Effective communication	Demonstration Observation Explanation Question and answer	Adding litres and half litres	Real objects c/board illustrations	A New Mk Maths book 4 page 224-225

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	4	MEASUREMENT	Capacity	-adds litres and militres -relates mililitres and litres	-reads and interprets the statement	Addition of litres and millilitres Example Add: 1 ml 1 litre = 1000ml 5 300 + 2 500 7 800	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	Adding litres in millilitres	c/board illustration	A New Mk Mathspage 227
	5	MEASUREMENT	Capacity	-reads and interprets statements -adds litres correctly -arranges litres in their	-reads and interprets statements -spells new words	Addition of litres in word problems Example 1.A certain home uses 95 litres of water in the morning and 87 litres in the afternoon. How much water is used in a day? Morning - 95 litres Afternoon-+87 litres In a day 182 litres	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	-Reading and interpreting statements -adding litres correctly	c/board illustrations	A New Mk Maths book 4 page 225-226

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	6	MEASUREMENT	Capacity	-mulitiplies litres and mililitres -changes mililitres to litres by dividing	-reads and interprets statements -spells new words	Multiplication of litres and millilitres Example Multiply: L ml 18 450 X 3 55 350 1350ml 1000/1350 = 1, 1000, 350ml	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	Answering oral and written questions about multiplication of litres and millliliters	Chalkboard illustrations	Understanding Mathematics bk. 4 page 193-194
		MEASUREMENT	Weight	-mulitiplies litres and mililitres -changes mililitres to litres by dividing	-reads and interprets statements -spells new words	-Defining weight -Units used in measuring weight Kg, Hg, Dg, G, dg, cg, mg -Items that are measured in weight	Logical thinking Problem solving Effective communication	Explanation Discussion Question and answer	Answering oral and written questions about weight	A chart showing units used to measure weight.	A New MK Maths book 4 page 228 Understanding Maths bk.4 pg 195

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	7	MEASUREMENT	Weigh t	-changes kilograms to grans -relates kilograms and grams	-reads and interprets statements -spells new words	Changing kilograms to grams. Example Change 3kgs to grams 1kg = 1000gms 3kgs = 3 x 1000gms = 3000gms.	Logical thinking Problem solving Effective communi cation	Explana tion Discussi on Questio n and answer	Chang ing kilogr ams to grams	c/bo ard illust ratio ns	Und ersta ndin g Mat hs book 4 page 198
9	**1**	MEASUREMENT	Weigh t	-changes grans to kilograms -relates grans and kilograms	-reads and interprets statements -spells new words	Changing grams to kilograms Example Change grams to kilograms Example Change 4000 grams to kilograms 1000gms = 1kg 1gm = 1 kg 1000 4 4000gms =1 x ~~4000~~ ~~1000~~ = 4 kgs	Logical thinking Problem solving Effective communi cation	Explana tion Discussi on Questio n and answer	Chang ing grams to kilogr ams	c/bo ard illust ratio ns	Und ersta ndin g Mat hs book 4 page 199
	2	MEASUREMENT	Weigh t	-relates a kilogram and half kilograms -multiplies kilograms by a half -adds kilograms and half kilograms	-reads and interprets statements -spells new words	-Relating akilogram and a half kilogram Examples 1kg = 1000gms 500 ½ kg = ½ x ~~1000~~ = 500gms ½ kg = 500gms 1 ½ kg = 1k = 1000gms ½ kg = + 500gms 1 ½ kg= 1500gms	Logical thinking Problem solving Effective communi cation	Demons tration Observa tion Explana tion Questio n and answer	Weigh ing items in kgs and grams	Weig hing mach ine	A new Mk Mat hs book 4 page 228

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	3	MEASUREMENT	Weigh t	-relates a kilogram and a quarter kilogram. counts number of quarters in a kilogram	-reads and interprets statements -spells new words	-Relating a kilogram and Quarter kilogram Example 1kg = 1000 gms ^{250} ¼ kg = ¼ x ~~1000~~ = 250gms 1 ¼ kg 1kg = 1000gms ¼ kg + 250gms 1250 1 ¼ kg = 1250gms	Logical thinking Problem solving Effective communi cation	Demons tration Observa tion Explana tion Questio n and answer	Weigh ing items in kilogr ams and quarte r kilogr ams	Weig hing mach ine Real objec ts	A New Mk Mat hs book 4 page 228
	4	MEASURES	Weigh t	-arranges kilograms to grams -adds kilograms and grams -changes grans to kilograms and grama	-reads and interprets statements -spells new words	Addition of kilograms and grams Examples Work out: 1) kg gms 2 250 + 3 150 5 400 2) kg gms 4 8001 kg = 1000g + 6 500 11 300 1 1000/1300 - 1000 300	Logical thinking Problem solving Effective communi cation	Explana tion Discussi on Questio n and answer	Addin g kilogr ams and grams	c/bo ard illust ratio ns	A New Mk Mat hs book 4 Page 231

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	5	MEASUREMENT	Weigh t	-adds kilograms and grams -changes kilograms and grams -arranges kilograms and grans	reads and interprets statements spells new words	Addition of kilograms and grams Example Add 104kg 420gms + 187kg 350 gms Kg gm 104 420 1kg = 1000g +187 350 291 770	Logical thinking Problem solving Effective communi cation	Explana tion Discussi on Questio n and answer	Addin g kilogr ams and grams	c/bo ard illust ratio ns	A New Mk Mat hs Bk. 4 page 231
	6	MEASUREMENT	Weigh t	-subtracts kilograms and grans arranges kilograms and grans	-reads and interprets statements -spells new words	Addition of kilograms and grams in word problems. Example Muyenje's father weighs 53kg 550 gm and his mother weighs 46kg 850gms. Find their total weight. Kgs gms 53 550 1kg = 1000g + 46 850 100 400 1400 1 1000/1400 - 1000 400	Logical thinking Problem solving Effective communi cation	Explana tion Discussi on Questio n and answer	- Readi ng state ments - Addin g in kilogr ams and grams	c/bo ard illust ratio ns	A New Mk Mat hs book 4 page 232-233
	7	MEASUREMENT	Weigh t	-arranges kilograms and grans properly -subtracts kilograms and grams	-reads and interprets statements -spells new words	Subtraction of kilograms and grams Example Subtract: Kg gms 1kg = 1000g 75 64 - 28 45 47 19	Logical thinking Problem solving Effective communi cation	Explana tion Discussi on Questio n and answer	Subtr acting kilogr ams and grams	c/bo ard illust ratio ns	A new Mk Mat hs book 4 page 233-234

10	**1**	MEASUREMENT	Weigh t	-arranges kilograms and grans -subtracts kilograms to grams	-reads and interprets statements -spells new words -writes new words	Subtraction of kilograms and grams in word problems. Example Nakato had 40kg 350gms of ghee. She sold 26kg 150gms. How much ghee did she remain with? Kgs gms 1kg = 1000g 40 350 - 26 150 14 200	Logical thinking Problem solving Effective communi cation	Explana tion Discussi on Questio n and answer	-Readi ng state ments Answe ring oral and writte n questi ons	c/bo ard illust ratio ns	A New Mk Mat hs book 4 page 234
	2	MEASUREMENT	Weigh t	-changes kilograms to grams -multiplies kilograms and grans	reads and interprets the statements -arranges kilograms and grams	Multiplication of kilograms and grams. Example. 1kg = 1000g Work out: Kg gm 32 120 X 9 289 80 1080 1000⟌1080 -1000 80	Logical thinking Problem solving Effective communi cation	Explana tion Discussi on Questio n and answer	Answe ring writte n questi ons	c/bo ard illust ratio ns	A new Mk Mat hs book 4 page 235

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	3	MEASUREMENT	Weigh t	-multiplies kilograms by numbers -writes the products correctly -puts the correct units	-reads and interprets statements -arranges kilograms and multiplies	Multiplication and division of weight Examples 1)Sarah was given 6 sacks of maize. Each sack weighed 500kgs. What was the total weight of the 6 sacks? 1 sack weighed 500 6sacks weighed x 6 3000kg	Logical thinking Problem solving	Explana tion Discussi on Questio n and answer	Writin g an activit y about multip licatio n and divisio n of kilogr ams and grams .	c/bo ard illust ratio ns	Und ersta ndin g Mat hs book 4 page 202
	4			divides kilograms by whole numbers -carries out division properly	-reads and interprets statements -divides and uses other words involved in division	2.The total weight of 4 girls is 120kg. Find the weight of each girl. 30 4⟌ 120 - 12↓ 0 - 0 = 30kgs					
E.L.O: THE LEARNER SOLVES SIMPLE MATH'S PROBLEMS IN FORM OF EQUATIONS WITH NO LETTERS											

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	5	algebra	using letters and boxes for numbers	The learner -reads key words -creates simple equation	Finds the missing numbers in the boxes -uses the relationship between addition and subtraction	What is the missing number? □ + 3 = 9 □ + 3 -3 = 9 – 3 = 6 □ = 9 – 3 □ = 6 b) k + 4 = 9 k + 4 – 4 = 9 – 4 k = 5	critical thinking -taking -decision -responding to questions Problem solving making choice -evaluating facts appreciation -co-operation	guided discovery question and answer explanation	finding the missing number using letters for numbers reading and creating simple equations without equation	P.4 Math syllabus page 18 Mk book 4 page 245 chalk board illustration	

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	6		subtraction	reads and creates simple equations	-finds the missing numbers -solves simple equation with letters	a) □ - 3 = 5 □ - 3+3 = 5+3 □ = 8 b) p – 4 = 7 p – 4 +4 = 7 + 4 p = 11	critical thinking -taking -decision -respondi ng to questions Problem solving making choice -evaluatin g facts appreciat ion -co-operation	guided discover y question and answer explanat ion	findin g the missi ng numb er using letters for numb ers	P.4 Math sylla bus page 18 Mk book 4 page 245 chalk board illust ratio n	

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	7		multiplication	reads and creates the simple equations	uses the relationship between multiplication and division finds the missing numbers	examples what is the missing number? $\square$ x 3 = 12 $\square$ x $\frac{3}{3}$ = $\frac{12}{1}$ ÷ 3 $\square$ x 1 = 4 $\square$ = 4	critical thinking -taking -decision -responding to questions Problem solving making choice -evaluating facts appreciation -co-operation	guided discovery question and answer explanation	reading and creating simple equations -dividing -answering equations	P.4 Math syllabus page 18 Mk book 4 page 245 chalk board illustration	

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11	1	division		reads and creates the simple equations	-uses the relationship between multiplication and division -finds the missing number	a) □ ÷ 2 = 8 □ = 8 2 1 2 x □ = 8 x 2 2 1 □ = 8x2 □ = 16	critical thinking -taking -decision - responding to questions Problem solving making choice - evaluating facts appreciation -co-operation	guided discovery question and answer explanation	answering questions - finding the missing numbers - dividing	P.4 Math syllabus page 18 Mk book 4 page 245 chalk board illustration	

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	2		forming equations	-reads words -writes words -creates simple equations	-form simple equations -changes simple words problems into simple equations	There were some eggs in the nest. A bird laid 5 more eggs. Altogether there were 13 eggs. How many eggs were there before? let the eggs be k k + 5 = 13 k + 5 – 5 = 13 -5 k = 8	critical thinking -taking -decision -responding to questions Problem solving making choice -evaluating facts appreciation -co-operation	guided discovery question and answer explanation	forming equations changing simple words to simple equations	Mk book 4 page 257	

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	3		forming equations	-reads words -writes words -creates simple equations	-form simple equations -changes simple words problems into simple equations	mutooli had some goats. When he sold 5 of them he remainded with 9 goats. How many goats had he before. let the number of goats he had befoire be c c – 5 = 9 c – 5 +5 = 9 + 5 c= 14 When I multiply a number be 7, I get 35. What is the number. let the number be c c x 7 = 35 7c = 35 $\frac{7c}{7} = \frac{35}{7}$ c = 5.	critical thinking -taking -decision -respondi ng to questions Problem solving making choice -evaluatin g facts appreciat ion -co-operation	guided discover y question and answer explanat ion	forming equations changing simple words to simple equations	Mk book 4 page 257	

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	4		forming equations collecting like terms	-reads words -writes words -creates simple equations	-form simple equations -changes simple words problems into simple equations	Nakandi had some balls, she divided them into 4 groups. If there were 12 balls in each group, how many balls did she have altogether. let the balls be c $c \div 4 = 12$ $\frac{c}{4} = \frac{12}{1}$ $\frac{4}{4} \times c = \frac{12}{1} \times 4$ $\underline{\underline{c = 48}}$ example x+x+x+x = 4x y+x+2y+4x =(y +2y) + (x + 4x) = 3y + 5x	critical thinking -taking -decision -respondi ng to questions Problem solving making choice -evaluatin g facts appreciat ion -co-operation	guided discover y question and answer explanat ion	forming equations changing simple words to simple equations collecting like terms	Mk book 4 page 257	

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	5				multiplies collects the like terms forms equations	examples what is 11 x k? 11 x k = 11k 3 x m = 3m 10 x q = 10q	critical thinking -taking -decision - responding to questions Problem solving making choice - evaluating facts appreciation -co-operation	guided discovery question and answer explanation	multiplying - collecting like terms - answering questions		

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	6		substi tution	reads letters writes equations	replaces unknowns with figures finds the value of the given equation	examples if x = 3 y = 4 and z = 5 find the value of: x + y + z = 3+4+5 = 7+5 = 12 zx = zxx 5 x 3 = 15	critical thinking -taking -decision - respondi ng to questions Problem solving making choice - evaluatin g facts appreciat ion -co- operation	guided discover y question and answer explanat ion	multip lying - collect ing like terms - answe ring questi ons		

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	7			reads letters writes equations	replaces unknowns with figures finds the vale of the given equation	if k = 6 and d = 3 find the value of kd = k x d = 6 x 3 = 18 k = 6 d 3 d+ k –d = 6+ 3 – 6 =9 – 6 = 3	critical thinking -taking -decision - responding to questions Problem solving making choice - evaluating facts appreciation -co-operation	guided discovery question and answer explanation	multiplying - collecting like terms - answering questions		

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