

P.5 MATHEMATICS SCHEME TERM III

WK	PD	THEME	TOPIC	SUB TOPIC	COMPETENCES		CONTENT	METHOD	ACTIVITY	L/SKILLS	REF	T/L AIDS
					Subject	Language						
1	1	Measurements	Money	Simple rates	The learner solves practical problems related to buying and selling	The learner; Reads, pronounces, spells and writes the words such as; Currency Rates Cents Shillings correctly Role plays buying and selling	Examples A book costs shs. 500. What is the cost of 3 similar books? 1 book costs sh. 500. 3 books cost sh. 500 x 3 Sh. 500 $\begin{array}{r} \text{X } 3 \\ \hline \text{Sh. 1500} \end{array}$ 5 books cost sh. 2000. Find the cost of one book 5 books cost sh. 2000 $\begin{array}{r} 400 \\ \text{1 book costs sh. } 2000 \div 5 \\ \hline \text{Sh. 400} \end{array}$ <u>1 book costs sh. 400 answer</u>	Guided discovery Question and answer Role play	Role playing buying and selling Interpreting the question	Fluency Confidence Critical thinking	Real objects like coins and paper notes , Books Text books Pens	MK Primary Maths books page 238 and Essential Ug. Primary Maths book 5 page 140-141
	2	Measurements	Money	More about simple rates	The learner Interprets the questions given correctly Solves practical problems related to buying and selling	The learner; Reads, spells, pronounces and writes words correctly Such as; -cost -sells -rates -bought	More about simple rates Examples The cost 6 cups is sh. 1200. Find the cost of 10 similar cups 6 cups – sh. 1200 1 cup – sh. $\frac{1200}{6}$ $\begin{array}{r} 2 \\ \text{10 cups – sh. } 1200 \times 10 \\ \hline \text{Sh. 200} \end{array}$ Sh. 200 x 10 Sh. 2000 3 pencils cost sh. 450. How many pencils can Abey buy with sh. 4500?	Guided discovery Question and answer Role play	Interpreting the questions Solving problems related to buying and selling	Neatness Fluency Critical thinking		MK book 5 page 239 Essential Ug. Primary MTC 5 page 141

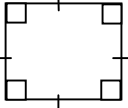
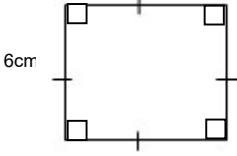
3	Measurements	Money	Shopping list	<p>The learner; Interprets the questions given correctly</p> <p>Works out the amount for each item</p> <p>Finds the total expenditure correctly</p>	<p>The learner; Reads, spells, pronounces and uses the words like change, expense, each, per amount in the sentences correctly</p>	<p>Shopping bills and change</p> <p>Examples</p> <p>A man had sh. 50,000, he bought 2kg of sugar at sh. 1200 per kilo, 3 bars of soap at 4000 a bar. How much change did he have?</p> <table><tr><td>Sugar</td><td>Soap</td><td>Total</td></tr><tr><td>Sh.1200 <u> X 2 </u> Sh. 2400</td><td>Sh. 4000 <u> X 3 </u> 12000</td><td>Sh. 12000 <u>Sh. 2400</u> Sh. 14400</td></tr></table> <p>Change</p> <p>Sh. 50000 <u>-sh. 14400</u> Sh. 35600</p>	Sugar	Soap	Total	Sh.1200 <u> X 2 </u> Sh. 2400	Sh. 4000 <u> X 3 </u> 12000	Sh. 12000 <u>Sh. 2400</u> Sh. 14400	<p>Guided discovery</p> <p>Question and answer</p>	<p>Interpreting the questions</p> <p>Working out the amount for each item and the total</p>	<p>Accuracy</p> <p>Neatness</p> <p>Fluency</p> <p>Articulation of words</p> <p>Patience</p>	<p>Balance beam</p> <p>Spring balance</p> <p>Weighing scale</p> <p>Window or kitchen scale</p>	Mk pupils book 5 page 240 , MK pupils book 4 page 177 and Fountain book 4 page 172																				
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Sh.1200 <u> X 2 </u> Sh. 2400	Sh. 4000 <u> X 3 </u> 12000	Sh. 12000 <u>Sh. 2400</u> Sh. 14400																																			
4	Measurements	Money	Completing the bill	<p>The learner; Interprets the question correctly</p> <p>Draws the bill tables correctly</p> <p>Completes by fill in the table correctly</p>	<p>The learner; Reads, spells, pronounces and writes the words like quantity, unit, cost, item correctly</p>	<p>Completing the tables</p> <p>A mother gave the shopping list below to her child. Study it and complete</p> <table><tr><td>Item</td><td>Quantity</td><td>Unit</td><td>Total</td></tr><tr><td>Blue band</td><td>½</td><td>Sh. 4600</td><td>Sh. 2300</td></tr><tr><td>Bread</td><td>3 loaves</td><td>Sh. 800</td><td>Sh. 2400</td></tr><tr><td>Tea leaves</td><td>1/4kg</td><td>Sh. 6000</td><td>Sh. 1500</td></tr><tr><td>Sugar</td><td>4kg</td><td>Sh. 1200</td><td>Sh. 4800</td></tr><tr><td>Total</td><td></td><td></td><td></td></tr></table> <table><tr><td>Total Q x U.C <u> 2300 </u> $\frac{1}{2} \times 4600$ Sh. 2300</td><td>Unit cost T – Q <u>2400</u> 3 = 800</td></tr></table>	Item	Quantity	Unit	Total	Blue band	½	Sh. 4600	Sh. 2300	Bread	3 loaves	Sh. 800	Sh. 2400	Tea leaves	1/4kg	Sh. 6000	Sh. 1500	Sugar	4kg	Sh. 1200	Sh. 4800	Total				Total Q x U.C <u> 2300 </u> $\frac{1}{2} \times 4600$ Sh. 2300	Unit cost T – Q <u>2400</u> 3 = 800	<p>Guided discovery</p> <p>Explanation</p> <p>Question and answer</p>	<p>Interpreting the question</p> <p>Drawing the table</p> <p>Working out and filling the table</p>	<p>Accuracy</p> <p>Neatness</p> <p>Fluency</p> <p>Articulation of words</p> <p>Patience</p>	<p>Balance beam</p> <p>Spring balance</p> <p>Weighing scale</p> <p>Window or kitchen scale</p>	EssentialUg. Primary Mathematics book 5 page 141
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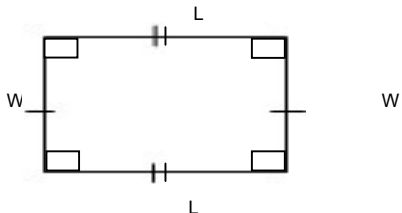
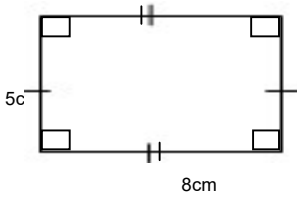
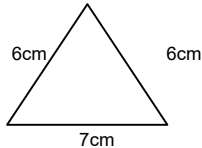
	5	Measurements	Money	Profit	<p>The learner; Describes how profit is made well.</p> <p>Applies and uses the formula for profits correctly</p>	<p>The learner; Reads, spells, pronounces the words like profit, gain, increase, more, high and increment correctly</p> <p>Defines the term profit using simple language</p>	<p>Finding profit</p> <p>Examples</p> <p>Abdul bought a shirt at sh. 3000 and sold it at sh. 3200. What was his profit?</p> <p>SP = sh. 3200</p> <p>C.P = sh. 3000</p> <p>Profit = S.P – C.P</p> <p>Sh. 3200</p> <p><u>Sh. 3000</u></p> <p><u>Sh. 200</u></p> <p>Profit = sh. 200</p> <p>The marked price of a sofa set is sh. 450,000. If it was sold at sh. 550,000, how much was the profit?</p>	<p>Guided discovery</p> <p>Question and answer</p> <p>Explanation</p>	<p>Interpreting the questions</p> <p>Applying and using the suitable formulae for profit</p>	<p>Confidence</p> <p>Appreciation</p> <p>Love</p> <p>Neatness</p> <p>Care</p> <p>Fluency</p>	<p>Text books</p> <p>Tomatoes</p> <p>Sugar cane</p> <p>Money</p>	MK Pupils book 5 page 245, MK pupils book 4 page 143 and Essential Ug. Primary MTC book 5 page 144
	6	Measurements	Money	Profit selling price and buying price	<p>The learner; Interprets the questions correctly</p> <p>States or applies the formulae correctly</p>	<p>The learner; Reads, pronounces, spells the key words like selling price, buying price, profit, gains, old/new price correctly</p>	<p>Finding the selling price or buying price when profit is given</p> <p>Profit = S.P – C.P</p> <p>SP = P + C.P</p> <p>C.P / B.F = SP = Profit</p> <p>Annet bought a tin of orange at sh. 14000. He sold oranges and made a profit of sh. 4000. At what price did he sell the oranges?</p> <p>SP = CP + P</p> <p>Sh. 14000 + sh. 4000</p> <p>= sh. 18000</p>	<p>Guided discovery</p> <p>Explanation</p>	<p>Interpreting the question</p> <p>Stating the formulae</p> <p>Applying the suitable formulae for working out the number</p>	<p>Confidence</p> <p>Appreciation</p> <p>Love</p> <p>Neatness</p> <p>Care</p> <p>Fluency</p>	<p>Text books</p> <p>Tomatoes</p> <p>Sugar cane</p> <p>Money</p>	New MK pupils book 5 149, MK pupils book 247 and Essential U. Primary book 5 page 145
	7	Measurements	Money	Loss	<p>The learner; Describes how a loss is made in the business</p> <p>Interprets the questions correctly</p> <p>Applies and uses the formulae for loss correctly</p>	<p>The learner; Reads, spells, pronounces and writes words like loss, decrease, depreciate, loss, reduce and discount correctly</p> <p>Defines a loss using simple language</p> <p>Role plays loss in business</p>	<p>Loss It is when the cost price of an item is higher than its selling price</p> <p>Hence, loss = C.P – S.P</p> <p>Example</p> <p>Jagwe bought a goat at sh. 120,000. He sold it to Deo at sh. 105,000. What was his loss?</p> <p>C.P = sh. 120,000</p> <p>S.P = sh. 105,000</p> <p>Sh. 120,000</p> <p>Sh. 105,000</p> <p>Jagwe made a loss of sh. 15,000</p>	<p>Guided discovery</p> <p>Role playing</p> <p>Explanation</p>	<p>Role playing a feel for a loss in business</p> <p>Describing how a loss is made</p> <p>Applying and using of formulae for a loss</p>	<p>Critical thinking</p> <p>Patience</p> <p>Fluency</p> <p>Confidence</p> <p>Articulation</p>	<p>Text books</p> <p>Money notes</p>	MK pupils books page 247 and Essential Ug. Primary MTC book 5 page 145

2	1	Measurements	Money	Loss , C.P and S.P	<p>The learner; Interprets the questions correctly</p> <p>States and applies of uses the formulae correctly</p>	<p>The learner; Reads, spells, pronounces and writes words in the sentences correctly</p>	<p>Finding the cost price or selling price when one and loss are given</p> <p>Loss = C.P – S.P</p> <p>Cost Price = Loss + S.P</p> <p>Selling price = Cost price - Loss</p> <p>Examples</p> <p>Kizito bought a ball at sh. 15,000, he sold it and made a loss of sh. 3000. What was the selling price of the ball?</p> <p>S.P = C.P – Loss</p> <p>=sh. 15,000 – sh. 3,000</p> <p>= sh. 12,000</p> <p>Kizito sold the ball at sh. 12,000</p>	<p>Guided discovery</p> <p>Questions and answer technique</p>	<p>Interpreting the question</p> <p>Stating the formulae</p> <p>Solving problem that involve loss, cost price and selling price</p>	<p>Text books</p> <p>Confidence</p> <p>Critical thinking</p> <p>Appreciation</p>	<p>Text books</p> <p>Money notes</p>	New MK pupils book 5 page 150 and Essential Ug. Primary MTC book 5 page 145
	2	Measurements	Money	Loss, cost price and selling price	<p>The learner; Interprets the questions correctly</p> <p>Applies and uses the formulae of finding cost price correctly</p>	<p>The learner; Reads, spells, pronounces and writes words in the sentences correctly</p>	<p>Finding the cost price when Loss is given</p> <p>C.P = Loss + Selling price</p> <p>C.P = L + S.P</p> <p>Examples</p> <p>Oketch sold a goat at sh. 15,000. If he made a loss of sh. 3,000, how much did he buy the goat?</p> <p>C.P = ??</p> <p>L = sh. 3000</p> <p>S.P = sh. 15000</p> <p>sh. 3000</p> <p>sh. 18000</p> <p>Oketch bought the goat at sh. 18000</p>	<p>Guided discovery</p> <p>Questions and answer technique</p>	<p>Interpreting the questions</p> <p>Stating the steps</p> <p>Finding the total cost</p>	<p>Effective communication</p> <p>Critical thinking</p> <p>Appreciation</p>	<p>Text books</p> <p>Money notes</p> <p>Real objects like books sets</p>	New MK pupils book 5 page 150 and Essential Ug. Primary MTC 5 page 145
	3	Measurements	Money	Calculating the total cost	<p>The learner; Interprets the question correctly</p> <p>States the steps on how to find the total cost correctly</p> <p>Finds the total cost</p>	<p>The learner; Reads and interprets the words in the sentences correctly</p>	<p>Calculating the total cost</p> <p>John went to the market and bought a box of soap at sh. 240,000. He used sh. 50,000 for transport and gave sh. 2000 to a porter who carried the box. Find how much was spent on soap.</p> <p>Buying price = sh. 240,000</p> <p>Transport = sh. 50,000</p> <p>Labour = sh. 2,000</p> <p>Sh. 292,000</p>	<p>Guided discovery</p> <p>Questions and answer technique</p>	<p>Calculating the total cost</p>	<p>Logical reasoning</p>	<p>Text books</p> <p>Money notes</p>	New MK pupils book 5 page 153
	4	Measurements	Money	Pricing and fare	<p>The learner; Interprets the questions correctly</p> <p>Summarizes and finds the amount asked correctly</p>	<p>The learner; Reads, spells, pronounces the words correctly</p> <p>Interprets the meaning of words like fare, couple and to and fro</p>	<p>Pricing</p> <p>Example</p> <p>John went to town and bought a box of book containing 144 booksd at sh. 92000. He used sh. 3500 for transport and paid sh. 2000 to the porter who helped him. If he wants to get a profit of sh. 3300 after selling the books, how</p>	<p>Guided discovery</p> <p>Explanation</p> <p>Open discussion</p>	<p>Interpreting the question</p> <p>Finding the total cost</p>	<p>Critical thinking</p> <p>Logical thinking</p> <p>Audibility</p>	<p>Text books</p>	New MK pupils books page 154 - 155

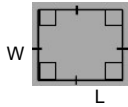

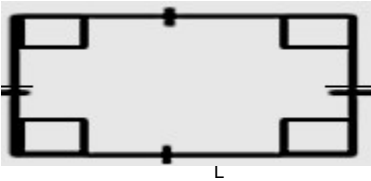

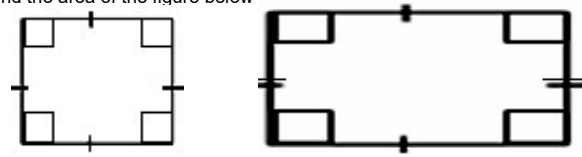
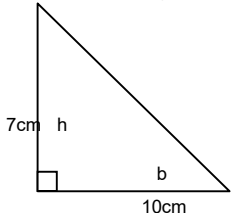
						<div>correctly</div> <div><div>Books = sh. 92,000</div><div>Transport = sh. 3,500</div><div>Labour = sh. 2,000</div><div>Profit = sh. 3,300</div><div>Total = sh. 100,800</div></div> <div><div>700</div><div>Amount for each book 100800</div><div><div>144</div><div>1</div></div></div> <div>He should sell each book at sh. 700.</div> <div>A man, a wife and their two children travelled to the village. If the fare for each adult is sh.2,500 and each child pays sh. 1000, how much did the conductor collect from the family?</div>			<div>Confidence</div> <div>Fluency</div> <div>Clarity</div>		
	5	Measurements	Length	Measuring length	<div>The learner; Handles the tools correctly</div> <div>Measures the length of different objects correctly</div> <div>Analyses the recorded information</div>	<div>The learner; Reads, spells, pronounces and writes words like length, centimeters, metre, ruler, width, breadth and height correctly</div> <div>Length It is the distance between two points apart.</div> <div>Length / distance can be measured in cm, m, mm, km e.t.c</div> <div>Measuring the length of the following</div> <div><div>- Table</div><div>- Desk</div><div>- Chalkboard</div><div>- School gate / perimeter fence</div><div>- Lines</div><div>- Books</div></div>	<div>Excursion</div> <div>Guided discovery</div>	<div>Measuring the length of different objects</div> <div>Recording information</div> <div>Analyzing information</div>	<div>Fluency</div> <div>Articulation</div> <div>Critical thinking</div> <div>Accuracy</div>	<div>Rulers</div> <div>Strings</div> <div>Papers</div> <div>Tape measures</div> <div>Ropes</div>	Essential Ug. Primary MTC book 5 page 150
	6	Measurements	Length	Conversion of metric units	<div>The learner; Converts to different units correctly</div>	<div>The learner; Reads, spells, pronounces and writes words like millimeters, centimeters, convert and express correctly</div> <div><div>Km Hm Dm M dm Cm mm</div><div>1cm = 100mm</div><div>10mm = 1cm</div><div>1mm = $\frac{1}{10}$ cm</div><div>Change 2cm to millimetres</div><div>1cm = 10mm</div><div>2cm = (2x10)mm</div><div>= 20mm</div></div>	<div>Explanation</div> <div>Guided discovery</div> <div>Question and answer</div>	<div>Converting to centimeters from millimeters and vice versa</div>	<div>Neatness</div> <div>Accuracy</div> <div>Fluency</div> <div>Audibility</div>	<div>Rulers</div> <div>Charts showing the conversion of units Cm – mm</div> <div>Text books</div>	Essential Primary MTC 5 bape 148 and New MK book 5 page 157

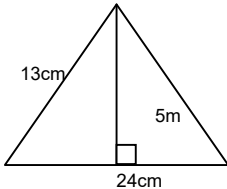
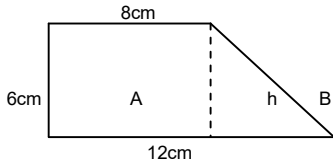
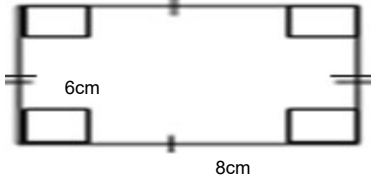
						<p>Change 50mm in centimetres</p> $1\text{mm} = \frac{1}{10}\text{cm}$ $50\text{mm} = \left(\frac{1}{10} \times 50\right)\text{cm}$ $= 5\text{cm}$ <p>Change the following to mm</p> <p>a) 5mm</p> <p>b) 20cm</p> <p>c) 2 $\frac{1}{2}$ cm</p> <p>Change 500mm to cm</p>					
	7	Measurements	Length	Conversion of units	<p>The learner; Converts to different units correctly</p> <p>The learner; Reads, spells, pronounces and writes words like metre, centimeter, express, milimetres correctly</p> <p>Constructs sentences using the above words correctly</p>	<p>Expressing metres to centimetres, decimetres, millimetres and vice versa</p> <p>Km Hm Dm M dm Cm mm</p> <p>1m = 10dm</p> <p>1m = 100cm</p> <p>1m = 1000m</p> $1\text{dm} = \frac{1}{10}\text{m}$ $1\text{cm} = \frac{1}{100}\text{m}$ $1\text{mm} = \frac{1}{1000}\text{m}$	<p>Explanation</p> <p>Group work (discussion)</p> <p>Guided discovery</p>	<p>Converting to different units</p> <p>(m ____ cm) (m ____ mm) (cm ____ m) (mm ____ m)</p>	<p>Neatness</p> <p>Patience</p> <p>Fluency</p> <p>Accuracy</p>	<p>A chart showing metric system or units</p> <p>Text books</p>	New MK pupils book 5 page 158 and Ess3eential Primary MTC book 5 page 151
3	1	Measurements	Length	Conversion of units	<p>The learner; Converts from one unit to another correctly</p> <p>The learner; Reads, spells, pronounces and writes words like kilometre, metres correctly</p> <p>Construct sentences using the above words correctly</p>	<p>Expressing kilometres to metres and vice versa</p> <p>Km Hm Dm M dm Cm mm</p> <p>1 0 0 0</p> <p>1km = 1000m</p> $1\text{m} = \frac{1}{1000}\text{km}$	<p>Explanation</p> <p>Group work (discussion)</p> <p>Guided discovery</p>	<p>Converting kilometers to metres and vice versa</p>	<p>Neatness</p> <p>Patience</p> <p>Fluency</p> <p>Accuracy</p>	<p>Text books</p> <p>Chart showing metric units</p> <p>Text books</p>	New MK pupils book 5 page 158 and Ess3eential Primary MTC book 5 page 151

						<p>Change 5km to metres</p> <p>1km = 1000metres</p> <p>5km = (5x1000)metres</p> <p>= 5000 metres</p> <p>Convert 25000m to kilometres</p> $1\text{m} = \frac{1}{1000} \text{ km}$ $25000\text{m} = \left(\frac{1}{1000} \times 25000 \right) \text{ km}$ <p>=25km</p> <p>Convert 2.5km to metres</p> <p>Change 350m to km</p>					
	2	Measurements	Length	Perimeter	<p>The learner; Describes how to find the perimeter of the square</p> <p>Applies and uses the formulae of finding the perimeter correctly</p>	<p>The learner; Reads, spells, pronounces and writes words like perimeter, distance, metres and centimeters correctly</p> <p>Perimeter This is the total distance around the given figure / shape</p> <p>Finding the perimeter of a square</p>  <p>S</p> $P = S + S + S + S$ $= 4S$ <p>Thus, P = Add all the sides a figure has</p> <p>Find the perimeter of the square below</p>  <p>6cm</p> $P = S + S + S + S$ $= 6\text{cm} + 6\text{cm} + 6\text{cm} + 6\text{cm}$ $= 12\text{cm} + 12\text{cm}$ $= 24\text{cm}$	<p>Guided discovery</p> <p>Question and answer</p> <p>Demonstration</p>	<p>Describing the total distance or perimeter</p> <p>Stating and using the formulae for perimeter</p> <p>Spelling words</p>	<p>Fluency</p> <p>Audibility</p> <p>Confidence</p> <p>Neatness</p>	<p>Cut outs of shapes</p> <p>Squared faces</p> <p>Text book</p>	Essential Ug. Primary MTC 5 page 151 and New MK pupils book 5 page 160

3	Measurements	Length	Perimeter	<p>The learner; Draws the rectangular shapes correctly</p> <p>Uses the formulae for perimeter correctly</p>	<p>The learner; Reads, spells, pronounces and writes neatly the words correctly</p> <p>Describes clearly how to find the perimeter of a rectangle using simple language</p>	<p>Perimeter of a rectangle</p>  $P = L + W + L + W$ $P = 2L + 2W$ $P = 2(L + W)$ <p>Find the perimeter of a rectangle below</p>  $P = 8\text{cm} + 5\text{cm} + 8\text{cm} + 5\text{cm}$ $= 13\text{cm} + 13\text{cm}$ $= 26\text{cm}$ <p>Or</p> $P = 2(L + w)$ $= 2(8\text{cm} + 5\text{cm})$ $= 2 \times 13\text{cm}$ $= 26\text{cm}$	Explanation	Describing the total distance or perimeter	Fluency	Rectangular shapes	Essential Ug. Primary MTC book 5 page 152 – 153 and New MK pupils book 5 page 158
							Guided discovery	Stating and using the formulae for perimeter	Audibility	Cut outs	
								Spelling words	Confidence	Text books	
									Neatness		
4	Measurements	Length	Perimeter	<p>The learner; Identifies the given shape correctly</p> <p>Finds the distance around that shape correctly</p>	<p>The learner; Reads, spells, pronounces and writes words like triangle, triangular, perimeter correctly</p>	<p>Find the perimeter of a triangle</p>  <p>Perimeter</p> $(6 + 6 + 7\text{dm})$ $12\text{cm} + 7\text{cm}$	Guided discovery	Finding the perimeter of the triangle	Confidence	Cutouts	New MK books page 161 and Essential Ug. Primary MTC book 5 page 154
							Group work		Fluency	Triangles	
									Neatness	Triangular shapes	

							</				

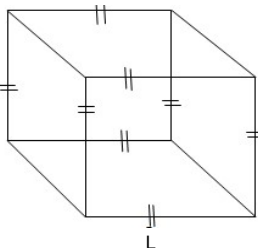
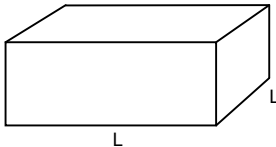
	6	Measurements	Length	Area	<p>The learner; Identifies the shape given</p> <p>Applies and uses the formulae of finding area correctly</p> <p>Uses correct units of area</p> <p>Draws the shape well</p>	<p>The learner; Reads, spells, pronounces and writes words like area, covered, square, rectangle and units correctly</p>	<p>Areas of a square and rectangle</p> <p>Area is the speace covered by an object</p> <p>It is measured in squared units</p>  <p>Area of  = $L \times L$</p>  <p>Area of  = $L \times W$</p> <p>Examples</p> <p>Find the area of the figure below</p>  <p>13cm 12cm</p>	<p>Guided discovery</p> <p>Explanation</p> <p>Question and answer</p> <p>Group discussion</p>	<p>Identifying the shapes</p> <p>Applying the formulae for area on each shape</p> <p>Calculating the area</p>	<p>Neatness</p> <p>Love</p> <p>Appreciation</p> <p>Fluency</p> <p>Articulation</p>	<p>Cut outs of shapes</p> <p>Chart showing Shapes</p>	New MK pupils book 5 page 163 and essential Ug. Primary MTC book 5 pages 157 – 158
	7	Measurements	Length	Area	<p>The learner; Recognizes and draws the shape correctly</p> <p>Applies and uses the formulae correctly</p> <p>Uses correct units</p>	<p>The learner; Reads, spells, pronounces and writes words like triangle, half, base, height, breadth, perpendicular and right angle correctly</p>	<p>Area of a triangle</p> <p>Example</p> <p>Find the area of triangle below</p>  <p>7cm h b 10cm</p>	<p>Group work</p> <p>Explanation</p> <p>Question and answer</p>	<p>Naming the shapes</p> <p>Spelling words</p> <p>Stating the formulae of working out the area</p>	<p>Neatness</p> <p>Love</p> <p>Appreciation</p> <p>Fluency</p> <p>Articulation</p>	<p>Cut outs of shapes</p> <p>Chart showing Shapes</p>	New MK pupils book 5 page 164 and Essential Ug. Primary MTC book 5 pages 158 – 159

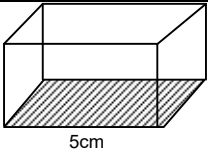
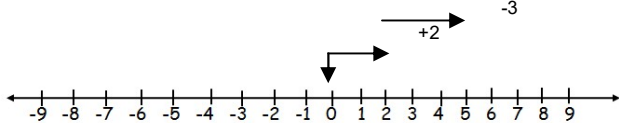
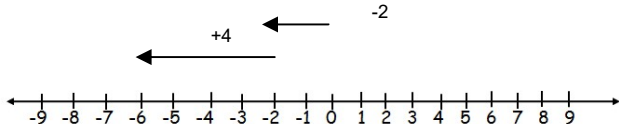
						<p>Area = $\frac{1}{2} \times b \times h$</p> <p>= $\frac{1}{2} \times 10\text{cm} \times 7\text{cm}$</p> <p>=$5\text{cm} \times 7\text{cm}$</p> <p>=$35\text{cm}^2$</p>  <p>A = $\frac{1}{2} \times b \times h$</p> <p>$\frac{1}{2} \times 24\text{cm} \times 5\text{cm}$</p> <p>$12\text{cm} \times 5\text{cm}$</p> <p>$60\text{cm}^2$.</p> <p>The base of a triangle is 10cm audits height is 8cm. Find its area.</p>						
4	1	Measurements	Length	Area	<p>The learner; Draws the jointed figure correctly</p> <p>Divides the jointed figures into parts correctly</p> <p>Finds the area of parts and total correctly</p>	<p>The learner; Reads the names of the figures correctly</p> <p>Recognizes the shapes and writes the names correctly</p>	<p>Area of combined shape</p> <p>Examples</p> 	<p>Explanation</p> <p>Guided discovery</p> <p>Question and answer</p>	<p>Identifying the parts of the jointed figure</p> <p>Cutting the jointed figure into parts</p> <p>Finding the area of each part and the total area</p>	<p>Patience</p> <p>Love</p> <p>Care</p> <p>Fluency</p> <p>Accuracy</p>	<p>Cutouts</p> <p>Real objects like squares , triangles and rectangl es</p>	MK pupils book page 164 to 165
	2	Measurements	Length	Area	<p>The learner; Recognizes the shapes given correctly</p> <p>Applies and uses the suitable formulae correctly</p>	<p>The learner; Reads, spells, pronounces and writes words like shaded, unshaded, difference and whole correctly</p>	 <p>Area = L x W</p> <p>$8\text{cm} \times 6\text{cm}$</p> <p>$48\text{cm}^2$</p>	<p>Guided discussion</p> <p>Explanation</p> <p>Question and answer</p>	<p>Finding the are of the whole figure un shaded and shaded</p>	<p>Neatness</p> <p>Care</p> <p>Love</p> <p>Appreciati on</p> <p>Confidenc e</p> <p>Accuracy</p>	<p>Tables</p> <p>Clothes</p> <p>Boxes</p> <p>Manillar s</p>	MK pupils book 5 pages 166 – 167

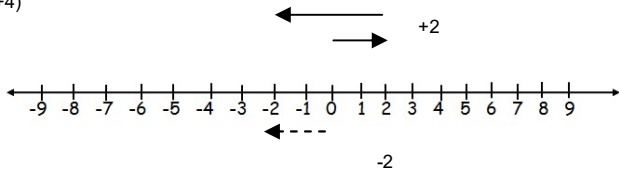
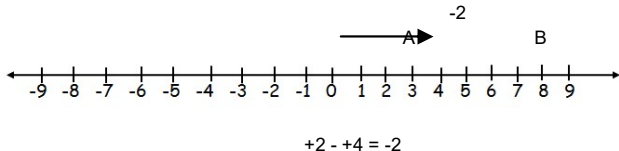
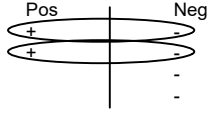
						<div><div><div><div><div><div></div><div>6cm</div></div><div><div></div><div>4cm</div></div></div></div><div><div>Area = $\frac{1}{2} \times b \times h$ $\frac{1}{2} \times 4\text{cm}^2 \times 6\text{cm}$ $2\text{cm} \times 6\text{cm}$ $=12\text{cm}^2$.</div></div></div><div><div><div><div><div><div></div><div>2cm</div></div><div><div></div><div>4cm</div></div></div><div><div></div><div>6cm</div></div></div><div><div></div><div>3cm</div></div></div><div><div>Area of A and B = $48\text{cm}^2 + 12\text{cm}^2$ $= 60\text{cm}^2$.</div></div></div></div>					
	3	Measurements	Mass	Changing kilograms to grams	<div><div><div>The learner; Measures the weights correctly Records the weights correctly Converts the units kg to g correctly</div><div>The learner; Reads, spells, pronounces and writes words like kilograms and grams correctly Recites the nymoniccorrectly Uses the words in sentences correctly</div></div></div> <div><div>Finding the area of the shaded part</div><div><div><div><div><div><div>A</div><div></div><div>D</div></div><div><div></div><div>12cm</div><div></div></div><div><div>B</div><div>12cm</div><div>C</div></div></div></div></div><div><div>Area of ABCD = 5×5 $12\text{cm} \times 12\text{cm}$ $= 144\text{cm}^2$ Area of the triangle $\frac{1}{2} \times 12\text{cm} \times 12\text{cm}$ $6\text{cm} \times 12\text{cm}$ 72cm^2</div><div><div>Workout the area of the shaded part</div><div><div><div><div><div></div><div>20cm</div></div><div><div></div><div>4cm</div></div></div><div><div>5cm</div><div><div></div><div>15cm</div></div></div></div></div></div></div><div><div>Question and answer</div><div>Guided discovery</div><div>Explanation</div></div><div><div>Weighing</div><div>Recording</div><div>Converting kilograms to gramms</div></div><div><div>Love</div><div>Critical thinking</div><div>Fluency</div><div>Patience</div><div>Accuracy</div></div><div><div>Balance beam</div><div>Spring balance</div><div>Papers</div><div>Chart showing conversi on of grams to kilogram s</div></div><div>New MK pupils book 5</div></div></div>						

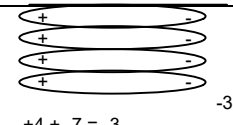
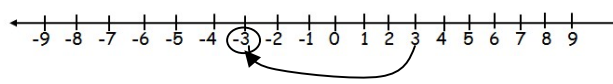
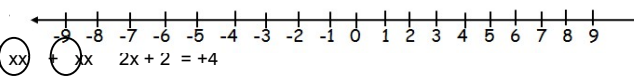
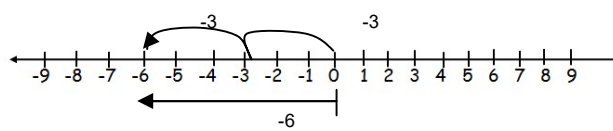
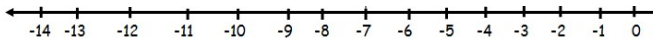
	4	Measurements	Mass	Changing kilograms to grams	<p>The learner; Recites the numeric of conversion correctly</p> <p>The learner; Recites the numeric of conversion correctly</p>	<p>Changing kilograms to grams</p> <p>Kg Hg Dg G dg Cg Mg</p> <p>1kg = 1000g</p> <p>Change 3kg to grams</p> <p>1kg = 1000g</p> <p>3kg = 3 x 1000g</p> <p>= 3000g</p> <p>Convert 1 $\frac{1}{4}$ kg to grams</p> <p>1kg = 000g</p> <p>1 $\frac{1}{4}$ kg = 1 $\frac{1}{4}$ x 100g</p> <p>$= \frac{5}{4}$ x 1000g</p> <p>= 5 x 250</p> <p>= 1250</p> <p>What is 25kg in grams</p>	<p>Explanation</p> <p>Guided discovery</p> <p>Group work</p>	<p>Reciting the nymonic Kg Hg Dg G dg Cg Mg</p> <p>Converting grams to kilograms</p>	<p>Fluency</p> <p>Audibility</p>	<p>Chart showing the conversion of grams to kilograms</p>	New MK pupils books	
	5	Measurements	Capacity	Conversion of units	<p>The learner; Measures to find the capacity of different objects</p> <p>Converts litres to milliliters correctly</p> <p>The learner; Reads, spells, pronounces and writes words like litre, capacity, milliliters and half correctly</p>	<p>Changing grams to kilograms</p> <p>1000g = 1kg</p> <p>$1g = \frac{1}{1000}$ kg</p> <p>Convert 6000g to kg</p> <p>$1g = \frac{1}{1000}$ kg</p> <p>$6000g = \frac{6000}{1000}$ kg</p> <p>= 6kg</p> <p>Change 750g to kilograms</p>	<p>Guided discovery</p> <p>Explanation</p> <p>Question and answer</p>	<p>Measuring using real objects</p> <p>converting litres to millilitres</p>	<p>Accuracy</p> <p>Confidence</p> <p>Love</p> <p>Appreciation</p>	<p>Cups</p> <p>Bottles</p> <p>Jerry can</p> <p>Water</p>	New MK pupils book 5 page 167	

						$1\text{g} = \frac{1}{1000} \text{ kg}$ $750\text{g} = \frac{750}{1000} \text{ kg}$ $\frac{75}{100}$ $=0.75\text{kg}$ <p>Change 2500g to kilograms</p> <p>Note: A tonne = 1000kg</p> <p>Conversion of litres to ml.</p> <p>Note: 1 litre = 1000 ml</p> <p>Examples</p> <p>Convert 2litres to ml</p> <p>1 litre = 1000ml</p> <p>2 litres = 2 x 1000ml</p> <p>= 2000ml</p> <p>Change 0.5l to millilitres</p> <p>1 litre = 1000mls</p> <p>0.5litre = 0.5 x 1000ml</p> $\left(\frac{5}{10} \times 1000\right) \text{ ml}$ <p>500ml</p> <p>How many mls are 4 litres</p>					
	6	Measurements	Capacity	Conversion of units	<p>The learner; Converts the volume to capacity correctly</p> <p>Uses the correct units</p> <p>The learner; Reads the sentences fluently</p> <p>Uses the words litres capacity and millimeters correctly</p>	<p>Converting mililitres to litres</p> $1\text{ml} = \frac{1}{1000} \text{ l}$ <p>Note capacity in litre</p> $\frac{\text{volume}}{1000}$ <p>A box contains 25000c/ml of water. How many litres are in the box.</p>	<p>Guided discovery</p> <p>Explanation</p> <p>Question and answer</p>	<p>Converting volume to capacity in litres</p>	<p>Fluency</p> <p>Accuracy</p> <p>Appreciation</p>	<p>Chart showing metric system</p>	<p>New MK pupils book 5 pages 167 - 168</p>

						$1\text{ml} = \frac{1}{1000} \text{ l}$ $25000\text{ml} = \frac{25000}{1000}$ $= 25\text{l}$ <p>Change 6250ml to litres</p> $\text{Capacity and } 1\text{ml} = \frac{1}{1000} \text{ l}$ $25000\text{ml} = \frac{25000}{1000}$ $= 25\text{l}$ <p>Change 6250ml to litres</p> $\text{Capacity} = \frac{v}{1000}$ $= \frac{6250}{1000} \text{ litres}$ $= 6.25\text{litres}$ <p>Change 250mls to litres</p>						
	7	Measurements	Capacity	Volume and capacity of a cube and cuboids	<p>The learner; Draws in cube and cuboid correctly</p> <p>Finds the volume of the cube and cuboid correctly</p> <p>Converts the volume to capacity (litres) correctly</p>	<p>The learner; Reads and interprets words and problems involving volume and capacity correctly</p>	<p>Volume of a cube and cuboid</p> <p>Cube</p> <div>$\text{Volume} = L \times L \times L$$= L^3$</div> <div>$\text{Volume} = L \times W \times H$</div> <p>Find the volume of the figure below</p>	<p>Explanation</p> <p>Guided discovery</p> <p>Group work</p> <p>Question and answer technique</p>	<p>Describing the figures</p> <p>Finding the volume of the cube and cuboid</p> <p>Find the capacity in litres</p>	<p>Appreciation</p> <p>Care</p> <p>Fluency</p> <p>Confidence</p>	<p>Real objects</p> <p>Cubes</p> <p>Cuboids</p> <p>Chart showing the formulae for volume</p> <p>Tins</p> <p>Room</p>	MK pupils books page 170

						<div><div>3cm 4cm 5cm</div></div> <div>Volume = L x W x H =5cm x 4cm x 3cm = 20cm² x 3cm = 60cm³</div> <div>A rectangular tank whose length is 10cm, 80cm width and is 30cm high. Find the volume of the tank Volume = L x W x H = 10cm x 80cm x 30cm = 600cm² x 30cm = 24000cm³.</div> <div>Find the capacity of the tank Volule = $\frac{volume}{1000}$ $\frac{24000}{1000}$ l = 24l</div>						
5	1	Numeracy	Addition of integers	Addition of integers	<div>The learner; Draws the number line correctly Represents the integers on the number line using arrows correctly Adds integers correctly</div>	<div>The learner; Describes the integers on the number line correctly</div>	<div>Addition of integers Add: + 2 + 3  +2 + +3 = +5 Add: - 2 + -4 </div>	Demonstration	Drawing number line	Patience	Text books	New MK pupils book 5 page 87 and Essential Ug. Primary MTC book 5 page 154
							<div>Question and answer Group work</div>	Representing the integers on the number line	Love Care Appreciation	Chart showing the addition of integers		

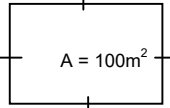
							<div>-2 + -4 = -6</div> <div>Add the following</div> <div>i) +4 + 2</div> <div>ii) 5 + +3</div>																	
	2	Numeracy	Addition of integers	Addition of integers	<div>The learner; Subtracts the integers using a number line correctly</div> <div>The learner; Reads, spells, pronounces and writes words like backward, forward, below, positive and negative correctly</div>	<div>Subtraction of integers</div> <div>Examples</div> <div>+2 - +4</div> <div>(+4)</div> <div></div> <div>+2 - -4</div> <div>Subtraction by labelling</div> <div>Subtract : +2 - 4</div> <div></div> <div>+2 - +4 = -2</div>	<div>Demonstration</div> <div>Explanation</div> <div>Guided discovery</div>	<div>Drawing the number line</div> <div>Representing the number line</div>	<div>Accuracy</div> <div>Neatness</div> <div>Fluency</div> <div>Confidence</div>	<div>Text books</div>	Essential Ug. Primary MTC books page 183 and MK pupils book 5 page 90													
	3	Numeracy	Addition on subtraction	<div>The learner; Adds the integers without using the number line correctly</div> <div>Subtracts integers correctly</div> <div>The learner; Describes the integers using simple language</div>	<div>Addition and subtraction without using a numberline</div> <div>Examples</div> <div>Add: +2 + +5</div> <div><table><tr><th>Pos</th><th>Neg</th></tr><tr><td>xx</td><td></td></tr><tr><td>x</td><td></td></tr><tr><td>xx</td><td></td></tr><tr><td>xx</td><td></td></tr><tr><td>x</td><td></td></tr><tr><td colspan="2">0</td></tr></table></div> <div>2 + 5 = 7</div> <div>Subtract</div> <div>+2 - +5</div> <div>+2 - 5</div> <div></div> <div>+2 - 5 = -3</div> <div>Add</div> <div>+4 - -7</div> <div>+2 - 5</div> <div>Pos</div> <div>Neg</div> <div>Subtract</div> <div>+7 - +4</div> <div>11 - 7</div>	Pos	Neg	xx		x		xx		xx		x		0		<div>Guided discovery</div> <div>Discussion</div> <div>Explanation</div>	<div>Adding integers</div> <div>Subtracting integers</div>	<div>Love</div> <div>Care</div> <div>Fluency</div> <div>Articulation</div> <div>Confidence</div>	<div>Chart showing the addition and subtraction of integers</div> <div>Text books</div>	MK pupils book 5 pages 88 – 89
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
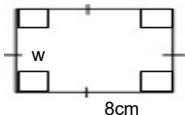
							 $+4 + -7 = -3$					
	4	Numeracy	Integers	Additive inverse	The learner; Finds the inverse of an integer correctly	The learner; Reads, spells, pronounces and writes words like additive, inverse correctly Uses the words in sentences correctly	Additive inverse Note: They are the opposite of given integer Example Find the additive inverse of +3 Let the inverse be y. $Y + 3 = 0$ $Y + 3 - 3 = 0 - 3$ $Y + 0 = -3$ $Y = -3$ Using as number line 	Explanation Guided discovery	Forming equations and solving Stating the inverse of a given integer	Love Care Fluency Articulation Confidence	Chart showing the addition and subtraction of integers Text books	MK book 5 page 100 - 101
	5	Numeracy	Integers	Multiplication of integers	The learner; Recognizes the number of groups Multiplies correctly with or without a number line	The learner; Reads the words , groups laps, twice, thrice correctly Recognizes the direction of movement correctly	Multiplication of integers Examples Multiply $x \times +2$ means 2 groups of +2  $2x + 2 = +4$ $= +4$ $3 \times -4 = 3 \text{ groups of } -4$ $-4 + -4 + -4$ Multiply using a number line $2x - 3 =$  $2 \times -3 = -6$ 5×-3 	Explanation Guided discovery	Forming groups from the given question Drawing number line showing the groups on the number line	Patience Care Confidence Neatness	Text books Chart	MK pupils book 5 page
	6	Numeracy	Integers	Application of integers	The learner; Applies the integers to solve wordy questions	The learner; Reads the words in sentences correctly Interprets the question correctly	Examples Jack made a loss of sh. 80,000 on the first day and a profit of sh. 120,000 on the 2 nd day. What did he end up with? Sh. 80000 + sh. 120,000	Explanation Guided discovery	Interpreting the question Solving the word application			

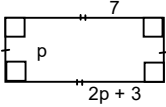
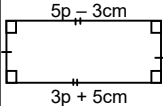
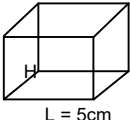
							Sh. 40,000	Question and answer				
6	1	Algebra	Algebra	Forming algebraic expression	The learner; Forms the algebraic expression correctly	The learner; Reads, spells, pronounces and writes words like algebraic, more double correctly Interprets the language used in expressing equations correctly	Forming the algebraic expression Examples 4 more than a = a + 4 Peter is twice as old as John who is (4 X x)y Peter's age = 2(4 + x) 2 divide by a number. A number increased by 4 Writing algebraic expression	Explanation Question and answer Guided discovery	Forming algebraic expression	Fluency Confidence Appreciation	Text book	New MK pupils book 5 page 91
	2	Algebra	Algebra	Collecting the like terms	The learner; Uses the words like collect , like terms in the sentences correctly	The learner; Reads, spells, pronounces and writes words like collect, like terms in the sentences correctly	Collecting the like terms Anet has 3 hens and 2 rabbits. Avinya has 2 hens and 5 rabbits. How many hens and rabbits do they have altogether? Let the hens be h , rabbits be r - Anet , Avinya 3h + 24 2h + 5r 3h + 2r + 2h 3h + 2h + 3r + 5h 5h + 7h Collect the like terms i) a + a + a ii) 3p + 6r + p + r iii) 10w = qz + 3w = 11z	Explanation Question and answer Guided discovery	Collecting the like terms	Fluency Audibility Clarity Critical thinking	Text books	MK pupils books page 270 and Essential Ug. Primary MTC book 5 page 188
	3	Algebra	Algebra	Substitution	The learner; Identifies the value of the unknown Substitutes correctly	The learner; Pronounces the word substitutes correctly Identifies other words to mean substitute correctly	Substitution means to replace Examples If Z = 2 and Y = 4, find the value of Z + Y Z + Y = 2 + 4 = 6 If a = 2, b = 3 and c = 4, Find the value of; i) a + b + c ii) 5c + 4b = 8a	Guided discovery Explanation Group work	Subtracting the unknown with known with known	Sharing Patience Expression Confidence Fluency	Real objects like Fruits Chairs Pencils	MK pupils book page 271

	4	Algebra	Algebra	Solving equations	The learner; Solves the equation by adding correctly	The learner; Describes the equation correctly Uses the words like balancing substitute correctly	Solving equation by subtracting Examples Solve for x. $X + 4 = 7$ $X + 4 - 4 = 7 - 4$ $X + 0 = 3$ $X = 3$	Guided discovery Group work	Solving equations by subtracting on both sides	Sharing Patience Expression Confidence Fluency	Weighting scale Text books	Mk pupils book 5 page 272
	5	Algebra	Algebra	Solving equations	The learner; Solves the equation correctly	The learner; Describes equation verbally correctly	Solving equation by adding Examples Find the value of n $n - 8 = 12$ $n - 8 + 8 = 12 + 8$ $n + 0 = 20$ $n = 20$ Solve for b $B - 48 = 18$	Guided discussion Group work	Solving equation by adding both sides	Sharing Patience Expression Confidence Fluency	Chart Text books	Essential Ug. Primary MTC book 5 page 194 – 196
	6	Algebra	Algebra	Solving equations	The learner; Solving equation	The learner; Reads, spells, pronounces and writes words like co-efficient, quotients and divide correctly	Solving equation by dividing Examples Solve for a $5a = 20$ $\frac{5a}{5} = \frac{20}{5}$ There $a = 4$ Solve for ax $X + x + x = 30$ $\frac{3x}{3} = \frac{30}{3}$ There $x = 5$ Solve for P $10p = 180$ $\frac{10p}{10} = \frac{180}{10}$ There $P = 18$	Explanation Guided discovery Question and answer	Solving by adding the co-efficient of the unknown on both sides	Fluency accuracy Accuracy Responding to question	Text books	MK pupils book 5 page 216 and Essential Ug. Primary MTC book 5 page 195

	7				<p>The learner; Forming and solving equations</p>	<p>The learner; Reads the sentences correctly</p> <p>Interprets the statements correctly</p>	<p>Forming and solving equations</p> <p>Examples</p> <p>When 3 is subtracted from a number, the answer is 10. What is the number?</p> <p>Let the number be y.</p> <p>3 from y = 10</p> $Y - 3 = 10$ $Y - 3 + 3 = 10 + 3$ $Y + 0 = 13$ $Y = 13.$ <p>In a class, 12 pupils are absent and 72 pupils are present. How many pupils are in the class.</p> <p>Let the total number of pupils be h</p> $H - 12 = 48$ $H - 12 + 12 = 72 + 12$ $H + 0 = 84$ $H = 84$	<p>Guided discovery</p> <p>Explanation</p> <p>Group work</p>	<p>Summarizing the equation</p> <p>Forming the equation</p> <p>Solving equations</p>	<p>Fluency</p> <p>Audibility</p> <p>Stress</p> <p>Patience</p> <p>Appreciation</p> <p>Responding to question</p>	Text books	MK pupils book 5 page 275
7	1	Algebra	Algebra	More on solving equations	<p>The learner; Solves the equation correctly</p> <p>Divides correctly</p>	<p>The learner; Reads the words application correctly</p>	<p>Solving more equations</p> <p>Examples</p> <p>Solve for a</p> $2a + 5 = 7$ $2a + 5 - 5 = 7 - 5$ $2a + 0 = 2$ $\frac{2a}{2} = \frac{2}{2}$ $a = 1$ <p>Solve for y</p> $6y - 5 = 19$ $6y - 5 + 5 = 19 + 5$ $6y + 0 = 24$ $\frac{6y}{6} = \frac{24}{6}$ $y = 4$ <p>Larok multiplied a number by 4 and added 5 to it. His result was 25. What is the number?</p>	<p>Discussion</p> <p>Explanation</p> <p>Guided discovery</p> <p>Question and answer</p>	<p>Solving equation</p> <p>Collecting like terms</p>	<p>Fluency</p> <p>Audibility</p> <p>Stress</p> <p>Patience</p> <p>Appreciation</p> <p>Responding to question</p>	Text books	MK pupils book 5 page 275

	2	Algebra	Algebra	More on solving equations	The learner; Find the value of the unknowns correctly	The learner; Uses the words square, square roots, factorizing correctly	<p>Solving equations involving squares</p> <p>Examples</p> <p>Find the value of f if $f^2 = 25$</p> $f^2 = 25$ $\sqrt{f^2} = \sqrt{25}$ $\sqrt{1 \times f} = \sqrt{5 \times 5}$ $f = 5$ <p>The area of a square is 9cm^2. Find the length of one side.</p> $A = S \times S$ $9\text{cm}^2 = S^2$ $\sqrt{s^2} = \sqrt{9\text{cm}^2}$ $\sqrt{S \times S} = \sqrt{3 \times 3\text{cm}}$ $S = 3\text{cm}$ <p>Find the value of w if</p> <p>i) $w^2 = 144$</p> <p>ii) $z^2 = 169$</p> <p>iii) $r^2 = 100$</p>	<p>Discussion</p> <p>Explanation</p> <p>Guided discovery</p> <p>Question and answer</p>	<p>Finding the value of the unknown by finding the square root</p>	<p>Fluency</p> <p>Audibility</p> <p>Stress</p> <p>Patience</p> <p>Appreciation</p> <p>Responding to question</p>	Text book	
	3	Algebra	Algebra	More on solving equations	The learner; Prime factorizes the number correctly. Finds the square roots of numbers correctly	The learner; Reads the words lie prime factorise, pairs, square, roots correctly	<p>Finding the sides of a square using square roots</p> <p>Examples</p> <p>The area of a square compound is 100m^2. Find the sides</p>  $A = 100\text{m}^2$ $\text{Area} = S \times S$	<p>Guided discovery</p> <p>Question and answer</p>	<p>Prime factorizing</p> <p>Substituting</p> <p>Finding perimeter</p> <p>Confidence</p>	<p>Neatness</p> <p>Responding to questions</p> <p>Confidence</p> <p>Love</p>	<p>Cut outs</p> <p>Real objects like squared faces, pieces of clothes</p> <p>Text book</p>	MK pupils book 5 page 281

						$100m^2 = S \times S$ $(10 \times 10) (mxm) (s \times s)$ $10 \times m = s$ $10m = s$	Explanation	Love	Neatness		
	4	Algebra	Algebra	Solving equation involving fractions	The learner; Identifies the LCD correctly Solves by multiplying the LCD both sides correctly	The learner; Uses the words like denominator, multiple correctly in the sentences Involving equation involving fractions Examples Solve: $\frac{x}{3} = 4$ (multiply by the lowest Common D) $3 \times \frac{x}{3} = 4 \times 3$ $X = 12$ Solve for P $\frac{p}{7} = 7$ $\frac{p}{7} \times 7 = \frac{7}{1} \times 7$ $P = 49$	Guided discovery Question and answer Explanation	Prime factorizing Substituting Finding perimeter	Neatness Responding to questions Confidence I	Cut outs Real objects like squared faces, pieces of clothes Text book	MK pupils book 5 page 283
	5	Algebra	Algebra	Find the sides of a rectangle	The learner; Draws the figure well Divides by the co-efficient correctly	The learner; Reads and interprets the words in the sentences correctly Finding the side of a rectangle and square with perimeter Example A square has a perimeter of 36cm. Find the length of sides  $p = 45$ $\frac{36}{4} = \frac{45}{4}$ $S = 9cm$	Explanation Discussion Guided discovery	Prime factorizing Substituting Finding perimeter Confidence Love Neatness	Neatness Responding to questions Confidence Identifying the LCD	Cut outs Real objects like squared faces, pieces of clothes Text book	MK pupils book 5 page 284-285
	6	Algebra	Algebra	More on the rectangle	The learner; Solves the words application questions correctly Illustrates the figure correctly	The learner; Reads the word problem correctly Finding the unknown sides when area is given Examples The area of a rectangle is $32cm^2$. Its length is 8cm, Find the width 	Guided discovery Explanation Question and answer	Reading the questions Illustrating the figure Solving the wordy	Fluency Articulation Confidence	Chart showing rectangle with missing sides Text	MK pupils book 5 page 289

						<p>Area = L x W L x W = A 8 x W = 32cm²</p> $\frac{8wcm}{8cm} = \frac{32cm \times cm}{8cm}$ <p>W = 4cm</p>		application question	Responding to questions	books	
	7	Algebra	Algebra	More on the rectangle	<p>The learner; Solves equation to find the unknowns</p> <p>Applies the formulae for area and perimeter correctly</p>	<p>The learner; Uses the word simplify in the sentences correctly</p> <p>More on finding the unknown of the rectangle</p> <p>Examples</p>  <p>Find the value of p.</p> $2p + 3 = 7$ $2p + 3 - 3 = 7 - 3$ $2p + 0 = 4$ $\frac{2p}{2} = \frac{4}{2}$ <p>P = 2</p> <p>Find the area</p> <p>Actual width</p> <p>P = 2cm</p> <p>A = L x w</p> <p>= 7cm x 2cm</p> <p>14cm².</p> <p>Find the value of t in cm</p> 	<p>Guided discovery</p> <p>Explanation</p> <p>Question and answer</p>	<p>Solving equation</p> <p>Finding perimeter and area</p>	<p>Fluency</p> <p>Articulation</p> <p>Confidence</p> <p>Responding to questions</p>	<p>Chart showing rectangle with missing sides</p> <p>Text books</p>	MK pupils book 5 page 289
8	1	Algebra	Algebra	More on the rectangle	<p>The learner; Illustrates the cuboid by drawing it correctly</p> <p>Applies the suitable formulae</p> <p>Substitutes correctly</p>	<p>The learner; Reads and interprets the word problem correctly</p> <p>Finding the missing sides when volume given</p> <p>Examples</p> <p>The volume of a cuboid is 60cm³. Its length is 5cm and width is 4cm. Find its height.</p>  <p>L = 5cm</p> <p>W = 4cm</p>	<p>Guided discussion</p> <p>Explanation</p>	<p>Reading the questions</p> <p>Illustrating</p> <p>Stating the formulae</p> <p>Solving by substituting</p>	<p>Fluency</p> <p>Responding to question</p> <p>Critical thinking</p>	<p>Text book chart</p>	MK pupils book 5 page 287

						<div>Volume = L x W x H</div> <div>$60\text{cm}^3 = 5\text{cm} \times 4\text{cm} \times \text{H}$</div> <div>$60\text{cm}^3 = 20\text{cm}^2 \times \text{H}$</div> <div>$\frac{60\text{cm}^3}{3\text{cm}} = \frac{20\text{cm}^2 \times \text{H}}{20\text{cm}^2}$</div> <div>3cm = H</div> <div>The height of a cuboid is 3cm</div>												
	2	Algebra	Algebra	More on application of algebra	<div>The learner; Summarises the question correctly</div> <div>Solves the words problem correctly</div>	<div>The learner; Reads the word problem correctly</div> <div>Interprets the question correctly</div>	<div>More on application</div> <div>Joel isd twice as old as his brother who is x years. If their totasl age is 30 years, find Joel's age.</div> <table><tr><td>Brother</td><td>Joel</td><td>Total</td></tr><tr><td>x</td><td>2x</td><td>30</td></tr></table> <div>$x + 2y = 30$</div> <div>$\frac{3x}{3} = \frac{30}{3}$</div> <div>x = 10</div> <div>Joel = (2x10) years</div> <div>= 20 years</div>	Brother	Joel	Total	x	2x	30	<div>Explanation</div> <div>Guided discovery</div> <div>Question and answer</div>	<div>Reading</div> <div>Summarizin g the question</div> <div>Solving the given question</div>	<div>Fluency</div> <div>Respondin g t question</div> <div>Critical thinking</div>	<div>Text books</div> <div>Chalkbo ard illustrati on</div>	
Brother	Joel	Total																
x	2x	30																