

**PRIMARY SEVEN MATHS SCHEME OF WORK TERM, 2017**

W K	P D	THEME	TOPIC	SUB TOPIC/ CONTENT	COMPETENCES		METHODS	LIFE SKILLS & VALUES	ACTIVITI ES	INSTRU CTIONA L MATERI ALS	REF.	REM
					SUBJECT The learner,	LANGUAGE The learner						
1	1	SETS	SET CONCEPTS	<b>Application of sets</b> Example: In a class of 30 pupils, 18 like music (m), 21 like art (a) and some like both. Using the Venn diagram, find the no. of pupils who like both subjects	Represents information on the Venn diagrams. - Solves problems involving Venn diagram	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving real life problems involving Venn diagrams	Ropes Cups Balls Books Pencils Pens	MK MTC bk 7 page 12 to 13 Underst. Mtc bk 7 page 9 to 10	
	2	SETS	SET CONCEPTS	<b>Application of sets</b> Example: In a family of 10 members, 6 members eat meat (m), 5 members eat both meat and fish while x members eat fish only. Using a venn diagram, how many members eat fish?	-Represents information on the Venn diagrams. - Solves problems involving Venn diagrams	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	Critical thinking -Effective communication. -Problem solvi	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	Trs own collection	

1	3	SETS	SET CONCEPTS	<b>Application of sets</b> Example: In a class of 35 pupils, y like mathematics (m) 20 like English (e) and 13 like both subjects. Using the venn diagram, find the number of pupils who like mathematics	Represents information on the Venn diagrams. - Solves problems involving Venn diagram	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	Trs own collection	
	4	SETS	SET CONCEPTS	<b>Application of sets</b> Example: In a group of 40 people, they all play foot ball only, 15 play tennis, 25 swim and some enjoy all the three games. Use a venn diagram to find the number of people who play all three games	Represents information on the Venn diagrams. - Solves problems involving Venn diagram	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	Trs own collection	
	5	SETS	SET CONCEPTS	<b>Application of sets</b> Example: In a village with 60 farmers, 36 grow rice, 24 grow beans, 10 grow both crops while t grow none of the above crops. Use the Venn diagram to find the value of t.	Represents information on the Venn diagrams. - Solves problems involving Venn diagram	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	Trs own collection	

1	6	SETS	SET CONCEPTS	<b>Sets in 3 Venn diagrams</b> -Describing shaded parts -Shading given regions	Represents information on the Venn diagrams. - Solves problems involving Venn diagram	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	MTC bk 7 page 12 to 13 Functional primary mtc bk7 pg8 Understanding mtc bk7 pg 9	
	7	SETS	SET CONCEPTS	-Interpreting 3 venn diagram sets. -Completing 3 Venn diagrams	Represents information on the Venn diagrams. - Solves problems involving Venn diagram	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	MTC bk 7 page 13 to 15 Functional primary mtc bk7 pg 8 Understanding mtc bk7 pg 9	
2	1	SETS	SET CONCEPTS	Application of 3 Venn diagram sets	Represents information on the Venn diagrams. - Solves problems involving Venn diagram	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	MTC bk 7 page 13 to 15 Functional primary mtc bk7 pg8 Understanding mtc bk7 pg 9	

2	2	NUMERACY	FRACTIONS	<b>Sharing in ratios</b> Given total share. Example Share 18 mangoes in the ratio of 4:5	-finds the total ratio -finds the actual shares.	-describes ratios -reads sentences related to ratios	Discussions Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving problems involving application of ratios	A variety of objects	MK MTC bk 7 page 98 to 99 Functional pri mtc bk7 pg107 Understanding mtc bk7 pg 136 Pri mtc for ug bk7 pg66	
	3	NUMERACY	FRACTIONS(RATIOS)	<b>Sharing in ratios</b> Given The share of one person. <b>Example</b> <b>Paul and James Shared some money in the ratio of 3:5 respectively. If James got shs. 3000, Find</b> <b>i.Paul's share.</b> <b>ii.their total share.</b>	Calculates the related questions	-reads the given word problems	Discussions Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving problems involving application of ratios	A variety of objects	MK MTC bk 7 page 98 to 99 Functional pri mtc bk7 pg108 Understanding mtc bk7 pg 137 Pri mtc for ug bk7 pg	

2	4	NUMERACY	FRACTONS(RATIOS)	<b>Given difference in shares.</b> <b>Example.</b> A and B Shared some money in the ratio of 3:5 respectively. If B got shs.4000 more than A, find i.the share of A ii.their total share.	Works out questions related to the given examples	Reads related questions	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communication -Problem solving	Solving problems involving application of ratios	A variety of objects	MK MTC bk 7 page 98 to 99 Functional printc bk7 pg Understanding mtc bk7 pg Printc for ug bk7 pg	
	5	NUMERACY	FRACTONS(RATIOS)	<b>; Decimals Combined Operations</b> Work out: 1. $(3 + 0.2) \div (0.1 + 2.8)$ 2. $(12.9 - 3) \div (0.2 + 2.8)$	Works out combined operations on decimals	Reads questions States and describes BODMAS .	Discussion s Group work Discovery Questions and answer	Problem solving Critical thinking Logical thinking	Solving mixed operations on decimals	Counter s	Trs own collection	

2	6	NUMERACY	FRACTIONS(RATIOS)	<p>Recurring decimals</p> <p>1.Express <math>\frac{1}{3}</math> as a decimal.</p> <p>2. Change 0.333.. to a common fraction</p> <p>3. Change 0.1222.. to common fraction</p>	Change fractions into decimals	Changes decimals into fractions	<p>Discussion s</p> <p>Group work</p> <p>Discovery Questions and answer</p>	<p>Problem solving</p> <p>Critical thinking</p> <p>Logical thinking</p>	<p>Writing repeating and non repeating decimals</p>	<p>Multipli cation tables</p>	<p>MK MTC bk 7 page 74 - 76</p> <p>Function al pri mtc bk7 pg122</p> <p>Understa nding mtc bk7 pg 126</p> <p>Pri mtc for ug bk7 pg</p>	
	7	NUMERACY	FRACTIONS(RATIOS)	<p><b>Combined operations on fractions</b></p> <p>1.Simplify: <math>\frac{5}{6} - \frac{1}{3} + \frac{1}{2}</math></p> <p><math>\frac{1}{3}</math> of <math>(\frac{1}{2} - \frac{1}{4}) + \frac{7}{12}</math></p>	Works out problems using BODMAS	Describes BODMAS Reads given questions	<p>Discussion s</p> <p>Group work</p> <p>Discovery Questions and answer</p>	<p>Problem solving</p> <p>Critical thinking</p> <p>Logical thinking</p>	<p>Applying BODMAS in combined operations of fractions</p>	<p>Chalk board illustrati ons</p>	<p>MK MTC bk 7 page 74 -76</p> <p>supplem entary mtc</p> <p>Understa nding mtc bk7 pg 110</p>	

3	1	NUMERACY	FRACTIONS(RATIOS)	<b>Applications of fractions</b> <b>Simple application</b> 2/3 of a class are girls, if there are 20 girls in that class, find the; 1. Total number of pupils 2. Number of boys.	Works out questions involving application of fractions	Read questions	Discussion Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	Chalk board illustrations	MK MTC bk 7 page Functional pri mtc bk7 pg Understanding mtc bk7 pg 111 Supplementary mtc	
	2	NUMERACY	FRACTIONS(RATIOS)	<b>FRACTIONS</b> <b>Complex application</b> After covering 2/3 of the journey, a motorist still had 40 km to cover. How long was the journey?	Works out questions involving application of fractions	Read questions	Discussion Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	Chalk board illustrations	MK MTC bk 7 page Functional pri mtc bk7 pg Understanding mtc bk7 pg 111 Pri mtc for ug bk7 pg	

3	3	NUMERACY	FRACTONS(RATIOS)	<b>FRACTIONS</b> <b>Taps, digging etc.</b> Tap A can fill a tank in 6 mins and tap b can fill the same tank in 3 mins. How long will both taps take to fill the tank if opened at the same time?	Works out questions involving application of fractions	Read questions	Discussion s Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	Variety of containers of different sizes -Chalk board illustrations	MK MTC bk 7 page 79 Functional primary mtc bk 7 pg Understanding mtc bk 7 pg Primary mtc for ug bk 7 pg 79	
	4	NUMERACY	FRACTONS(RATIOS)	<b>APPLICATIONS OF FRACTIONS</b> <b>Finding remainders given one fraction</b> 4/5 of the class are boys and the rest are girls. Find the fraction of girls	Works out questions involving application of fractions	Read questions	Discussion s Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	-Chalk board illustrations	MK MTC bk 7 page Functional primary mtc bk 7 pg	
	5	NUMERACY	FRACTONS(RATIOS)	<b>APPLICATION OF FRACTIONS</b> <b>Finding remainders given two fraction</b> 1/4 of the animals are cows, 1/3 are bulls and the rest are goats. Find the fraction of goats?	Works out questions involving application of fractions	Read questions	Discussion s Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	Chalk board illustrations	Trs own collection	



3	6	NUMERACY	FRACTONS(RATIOS)	<b>APPLICATIONS OF FRACTIONS</b> <b>Finding fraction of the remainder.</b> On a farm, $\frac{2}{3}$ of the animals are black, $\frac{1}{4}$ of the remaining are brown. Find: 1. A third of the remaining fraction. 2. $\frac{1}{5}$ of the remaining fraction	Works out questions involving application of fractions	Read questions	Discussion s Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	Chalk board illustrations	Trs own collection	
	7	NUMERACY	FRACTONS(RATIOS)	<b>APPLICATION OF FRACTIONS INVOLVING REMAINDERS</b> John spent $\frac{1}{3}$ of his money on books and $\frac{1}{6}$ on the remainder on transport. What fraction of his money was left? 2. If he was left with 15,000/= how much did he have at first?	Works out questions involving application of fractions	Read questions	Discussion s Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	Chalk board illustrations	MK MTC bk 7 page 78 Functional print bk7 pg Understanding mtc bk7 pg 112	

4	1	NUMERACY	FRACTIONS(RATIOS)	<b>APPLICATION OF PERCENTAGE</b> 1. Opio has 400 herds of cattle. 80% of them are cowhand the rest are bulls. Find the number of: a) Cows b) Bulls 2. If 30% of my salary is spent on food, I save shs. 21,000/=. What is my salary?	Works out problems on percentages in daily life.	Reads given word, questions involving percentages Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Problem solving Effective communication Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	Chalk board illustrations	MK MTC bk 7 page 113 & 114 Functional print bk7 pg129 Understanding mtc bk7 pg Print for ug bk7 pg	
	2	NUMERACY	FRACTIONS(RATIOS)	<b>PERCENTAGE INCREASE AND DECREASE</b> 1. Increase shs. 800 by 20% 2. Decrease 1500 kg by 10%	Works out problems on percentages in daily life.	Reads given word, questions involving percentages Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	Chalk board illustrations	MK MTC bk 7 page 115 & 117 Functional print bk7 pg 131 Understanding mtc bk7 pg Print for ug bk7 pg	

4	3	NUMERACY	FRACTIONS(RATIOS)	<b>FINDING ORIGINAL NUMBER AFTER %AGE INCREASE/DECREASE</b> 1. What amount when increased by 20 % becomes 1440? 2. If a man's salary is decreased by 35% it becomes shs. 15600/=. What is his salary	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	Chalk board illustrations	MK MTC bk 7 page 118 & 120 Functional primary mtc bk7 pg131 Understanding mtc bk7 pg 139 Primary mtc for ug bk7 pg	
	4	NUMERACY	FRACTIONS(RATIOS)	<b>FINDING %AGE OF INCREASE/DECREASE</b> 1. When 400kg are increased by p%, they become 440kg. Find the value of p 2. 800 pupils. Find the value of k	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	Chalk board illustrations	MK MTC bk 7 page 121 to 122 Functional primary mtc bk7 pg Understanding mtc bk7 pg Primary mtc for ug bk7 pg	

4	5	NUMERACY	FRACTIONS(RATIOS)	<b>PERCENTAGE PROFIT AND LOSS</b> 1. Joy bought a T.V set at shs. 200,000 and sold it to Amooti at shs. 250,000/=. Find her percentage gain. 2. Otim bought a shirt at shs. 4000 and sold it at 3000/=. Find his percentage loss.	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	Chalk board illustrations	MK MTC bk 7 page 123 & 124 Functional print bk7 pg Understanding mtc bk7 pg Print for ug bk7 pg	
	6	NUMERACY	FRACTIONS(RATIOS)	<b>FINDING SELLING PRICE GIVEN %AGE PROFIT/LOSS</b> 1.Bugirwa bought a DVD Player at shs.300,000 and sold it at 10%profit.Find his selling price. 2.A fridge bought for shs.600,000 was sold at a loss of 25%.Calculate the selling price	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	A variety of items in class like bags, textbooks. Chalk board illustrations	MK MTC bk 7 page 128 Functional print bk7 pg135 Understanding mtc bk7 pg 232 Print bk7 pg108	

4	7			FINDING COST PRICE GIVEN %AGE PROFIT/LOSS	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussion s Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	A variety of items in class like bags, textbooks.  Chalk board illustrations	MK MTC bk 7 page 125 to 126 Functional primary mtc bk7 pg137 Understanding mtc bk7 pg Pri mtc bk7 pg108	
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5	1	NUMERACY	FRACTIONS(RATIOS)	<b>DISCOUNT</b> The market price of a book is sh.4000.If a customer is offered a 10%discount, how much does he pay?	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	A variety of items in class like bags, textbooks.  Chalk board illustrations	MK MTC bk 7 page 129 to 131 Functional primary mtc bk7 pg137 Understanding mtc bk7 pg 234 Primary mtc bk7 pg109	
	2	NUMERACY	FRACTIONS(RATIOS)	<b>COMMISSION</b> A salesman was given a salary of sh.20,000 plus a commission of 3% of his sales. If he sold 80 toys at shillings 15,000 each, find his commission and how much he earned together.	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	A variety of items in class like bags, textbooks. Chalk board illustrations	MK MTC bk 7 page 132 to 133 Primary mtc for ug bk7 pg Revision primary mtc	

5	3	NUMERACY	FRACTIONS(RATIOS)	SIMPLE NTEREST Finding simple interest Finding amount	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussion s Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	A variety of bank notes.	MK MTC bk 7 page 134 to 135 Functional primary mtc bk7 pg141 Understanding mtc bk7 pg 241 Primary mtc for ug bk7 pg	
	4	NUMERACY	FRACTIONS(RATIOS)	SIMPLE NTEREST Finding principal Finding time Finding rate	Works out problems on percentages in daily life	Reads given word, questions involving percentages Describes the meaning of percent.	Discussion s Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	Chalk board illustrations	MK MTC bk 7 page 138 to 143 Functional primary mtc bk7 pg141 Understanding mtc bk7 pg 241 Primary mtc for ug bk7 pg	

	5	INTERPRETATION OF GRAPH AND DATA HANDLING	COORDINATE GRAPHS	<p>COORDINATES</p> <p>Identifying lines</p> <p>Plotting points.</p>	<p>Presents and interprets information on a coordinate graph.</p>	<p>Reads information on graphs</p> <p>Explains what steps are followed when presenting data on graphs.</p>	<p>Discussions</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Plotting graphs of ordered pairs of coordinates and interpreting information</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK</p> <p>MTC bk 7 page 175 to 177</p> <p>Functional primary mtc bk7 pg162</p> <p>Understanding mtc bk7 pg</p> <p>Pri mtc bk7 pg124</p>	
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5	6	INTERPRETATION OF GRAPH AND DATA HANDLING		COORDINATES Naming points	Presents and interprets information on a coordinate graph.	Reads information on graphs Explains what steps are followed when presenting data on graphs.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Plotting graphs of ordered pairs of coordinates and interpreting information	A graph board A well drawn chart	MK MTC bk 7 page 178 to 179 Functional print bk7 pg Understanding mtc bk7 pg Print for ug bk7 pg	
	7	INTERPRETATION OF GRAPH AND DATA HANDLING		COORDINATES Plotting points Forming figures Finding areas	Presents and interprets information on a coordinate graph.	Reads information on graphs Explains what steps are followed when presenting data on graphs.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Plotting graphs of ordered pairs of coordinates and interpreting information	A graph board A well drawn chart	MK MTC bk 7 page 180 to 183 Functional print bk7 pg162 Print bk7 pg124	

6	1	INTERPRETATION OF GRAPH AND DATA HANDLING		COORDINATES -Using equation of the line to complete tables -Plotting lines.	Presents and interprets information on a coordinate graph.	Reads information on travel graphs Explains what steps are followed when presenting data on graphs.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Plotting graphs of ordered pairs of coordinates and interpreting information	A graph board A well drawn chart	MK MTC bk 7 page 184 to 186 Functional primary mtc bk7 pg162  Primary mtc for ug bk7 pg124	
	2	INTERPRETATION OF GRAPH AND DATA HANDLING		TRAVEL GRAPHS -Reading horizontal scales. Reading vertical scales.	Presents and interprets information on a travel graph.	Reads information on travel graphs Explains what steps are followed when presenting data on graphs.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Presenting and interpreting information on travel graphs	A graph board A well drawn chart	MK MTC bk 7 page 166 to 172 Functional primary mtc bk7 pg186 Understanding mtc bk7 pg 169	

6	3	INTERPRETATION OF GRAPH AND DATA HANDLING		TRAVEL GRAPHS Interpreting drawn travel graph. Answering questions about the graph.	Presents and interprets information on a travel graphs.	Reads information on travel graphs Explains what steps are followed when presenting data on graphs.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Presenting and interpreting information on travel graphs	A graph board A well drawn chart	MK MTC bk 7 page 166 to 172 Understanding mtc bk7 pg 172	
	4			TRAVEL GRAPHS Drawing travel graphs.	Presents and interprets information on a travel graph.	Reads information on travel graphs Explains what steps are followed when presenting data on graphs.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Presenting and interpreting information on travel graphs	A graph board A well drawn chart	MK MTC bk 7 page 173 to 174 Understanding mtc bk7 pg 181	

6	5			PIE CHARTS Showing degrees Showing percentages. Showing expressions.	Presents and interprets information on a pie chart. Works out problems using pie charts.	Reads information on pie charts. Explains what steps are followed when presenting data on pie charts.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Working out problems using pie charts	A graph board A well drawn chart	MK MTC bk 7 page 157 to 161 Functional print mtc bk7 pg Understanding mtc bk7 pg 186 Print mtc for ug bk7 pg	
	6			PIE CHARTS Drawing pie charts given; infractions ii.percentages	Presents and interprets information on a pie chart. Works out problems using pie charts	Reads information on pie charts. Explains what steps are followed when presenting data on pie charts.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Working out problems using pie charts	A graph board A well drawn chart	MK MTC bk 7 page 162 to 163 Understanding mtc bk7 pg 187 Print mtc bk7 pg122	

	7			<b>PIE CHARTS</b> Drawing pie charts given; i.quantities (money, animals, people)	Presents and interprets information on a pie chart. Works out problems using pie charts	Reads information on pie charts. Explains what steps are followed when presenting data on pie charts.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	Working out problems using pie charts	A graph board A well drawn chart	MK MTC bk 7 page 162 to 163 Function al pri mtc bk7 pg Understa nding mtc bk7 pg 187 Pri mtc bk7 pg123	
7	1			<b>TEMPERATURE            GRAPHS</b> Scale reading. Interpreting drawn temperature. Graphs.	-Presents and interprets information on temperature graphs	Reads information on temperature graphs. Explains what steps are followed when presenting data on temperature graphs.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	Working out problems using temperatur e graphs	A graph board A well drawn chart	MK MTC bk 7 page 164 to 165 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg	

7	2			<p>TEMPERATURE GRAPHS</p> <p>Drawing temperature graphs.</p>	<p>-Presents and interprets information on temperature graphs</p>	<p>Reads information on temperature graphs.</p> <p>Explains what steps are followed when presenting data on temperature graphs.</p>	<p>Discussions</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Working out problems using temperature graphs</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 164 to 165</p> <p>Functional print mtc bk7 pg</p> <p>Understanding mtc bk7 pg</p> <p>Pri mtc for ug bk7 pg</p>	
	3			<p>APPLICATION OF MEAN.</p> <p>The mean of <math>y+1</math>, 5 and <math>y</math> is 6. Find the value of <math>y</math></p>	<p>Solves problems involving application of mean, median, mode and range.</p>	<p>Discusses ways of finding mean, median, mode and range.</p>	<p>Discussions</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Calculating problems involving the application of mean, median, mode and range</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>Trs own collection</p>	

7	4			<b>PROBABILITY</b> Probability of success/failure Probability when two teams play.	Calculates probabilities of numbers.	Discusses ways of finding probabilities of numbers.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculating probabilities of numbers	A graph board A well drawn chart	Trs own collection	
	5			<b>PROBABILITY</b> Tossing one coin/two coins Tossing one dice/two dice.	Calculates probabilities of numbers..	Discusses ways of finding probabilities of numbers.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculating probabilities of numbers	A graph board A well drawn chart	MK MTC bk 7 page 188 to 191 Functional print mtc bk7 pg172 Print mtc bk7pg135	
	6	MEASUREMENTS	LENGTH, MASS & CAPACITY	<b>CIRCUMFERENCE</b> -Finding circumference of a circle -Finding radius given circumference -Finding diameter given circumference.	Calculates circumference of a circle	Describes the meaning of circumference	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication. Decision making	Calculating circumference of a circle	A graph board A well drawn chart	MK MTC bk 7 page 367 to 371 Functional print mtc bk7 pg228 Print mtc bk7 pg221	

7	7			<p>APPLICATION OF CIRCUMFERENCE</p> <ul style="list-style-type: none"> <li>-Finding circumference of a circle</li> <li>-Finding radius given circumference</li> <li>-Finding diameter given circumference</li> </ul>	Calculates number of poles and spaces (closed and open fences)	Describes the steps followed when finding number of revolution	<p>Discussion s</p> <p>Group work</p> <p>Discovery Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Calculating circumference of a circle</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 367 to 371</p> <p>Functional print bk7 pg</p> <p>Understanding mtc bk7 pg</p> <p>Pri mtc for ug bk7 pg</p>	
8	1			<p>APPLICATION OF CIRCUMFERENCE(Revolution)</p> <ul style="list-style-type: none"> <li>-Finding number of revolutions given distances and diameter/radius.</li> <li>-Finding diameter/radius given distance given revolutions and diameter.</li> </ul>	Finds number of revolutions.	Describes the steps followed when finding No. of poles and spaces	<p>Discussion s</p> <p>Group work</p> <p>Discovery Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Calculating circumference of a circle</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 376 to 377</p>	



8	2			<b>PERIMETER OF SEMICIRCLES</b> - Find length of arcs -Finding perimeter of semi circle	Finds perimeter of semi circle	Describes a semi circle Explains the steps followed when finding perimeter of semi circle.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Finding perimeter of parts of a circle	A graph board A well drawn chart	MK MTC bk 7 page 372 Functional primary mtc bk7 pg Understanding mtc bk7 pg Primary mtc for ug bk7 pg	
	3			<b>PERIMETER OF QUADRANTS</b> Finding lengths of arcs Finding perimeter of quadrants	Calculates perimeter of quadrant	Explains the steps taken to find the perimeter of a quadrant  Describes a quadrant.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Finding perimeter of parts of a circle	A graph board A well drawn chart	MK MTC bk 7 page 372 Primary mtc for ug bk7 pg	

8	4			<p>PERIMETER OF COMBINED SHAPES AND SHADED REGION</p> <p>Perimeter of combined shapes</p> <p>Perimeter of shaded parts</p>	<p>Finds perimeter of combined shapes</p> <p>Calculates perimeter of shaded parts</p>	<p>Explains taken to find perimeter of combined shapes and shaded portions.</p>	<p>Discussions</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Calculating perimeter of combined shapes</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 373 to 374</p> <p>Functional primary mtc bk7 pg</p> <p>Understanding mtc bk7 pg</p> <p>Primary mtc for ug bk7 pg</p>	
	5			<p>AREA OF A CIRCLE</p> <p>Finding area of a semi circle given radius/diameter.</p> <p>Finding radius/diameter given area of circle.</p>	<p>Works out the area of a circle</p>	<p>Describes the meaning of Pi</p> <p>Explains the steps followed when finding area of a circle</p>	<p>Discussions</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Calculating area of a circle and its parts</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 378 to 382</p> <p>Functional primary mtc bk7 pg232</p> <p>Understanding mtc bk7 pg</p> <p>Primary mtc bk7 pg223</p>	

8	6			<p>AREA OF A SEMI CIRCLE</p> <p>Finding area of a semi circle given radius/diameter.</p> <p>Finding radius</p> <p>Diameter/given area.</p>	Calculate the area of a semi circle	Explains the steps taken to find area of a semi circle.	<p>Discussion s</p> <p>Group work</p> <p>Discovery Questions and answer</p>	Critical thinking Problem solving Effective communication.	Calculating area of a circle and its parts	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 383 to 384</p> <p>Functional print bk7 pg232</p> <p>Understanding mtc bk7 pg</p>	
	7			<p>AREA OF A QUADRANT</p> <p>Finding area of quadrant.</p> <p>Finding radius/diameter given area.</p>	Works out area of a quadrant	Explains the steps taken to find area of quadrants.	<p>Discussion s</p> <p>Group work</p> <p>Discovery Questions and answer</p>	Critical thinking Problem solving Effective communication.	Calculating area of a circle and its parts	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page383 to384</p> <p>Functional print bk7 pg232</p> <p>Understanding mtc bk7 pg</p>	

9	1			<b>PERIMETER AND AREA OF OTHER SECTORS</b> Finding length of arcs Finding perimeter of sectors Finding area of sectors.	Works out the perimeter and area of other sector	Describes the meaning of a sector Explains steps taken to find perimeter and area of other sectors	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculating perimeter of sectors	A graph board A well drawn chart	MK MTC bk 7 page 383 to 384 Functional primary mtc bk7 pg Understanding mtc bk7 pg Primary mtc for ug bk7 pg	
	2			<b>AREA OF COMBINED SHAPES</b> Rectangle & a semi circle A square & two semi circles etc	Works out area of area of combined shapes	Describes the combined shapes Explains the steps taken to find area of given combined shapes.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculating area of combined shapes	A graph board A well drawn chart	MK MTC bk 7 page 385 Functional primary mtc bk7 pg Understanding mtc bk7 pg Primary mtc for ug bk7 pg	

9	3			<p><b>AREA OF SHADED AND UNSHADED PARTS</b></p> <p>A circle in a circle A circle in a trapezium A semi circle in a parallelogram</p>	Calculates area of shaded and unshaded regions	Describes the shaded regions. Explains the steps taken when finding area of shaded parts.	<p>Discussion s</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Finding area of shaded or unshaded regions</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 386 to 388</p> <p>Functional print mtc bk7 pg</p> <p>Understanding mtc bk7 pg</p> <p>Pri mtc for ug bk7 pg 36</p>	
	4			<p><b>APPLICATION OF AREA</b></p> <p>Cutting circular plates from rectangular sheet</p> <p>Placing rectangular tiles on rectangular floor</p> <p>Placing square tiles on floor.</p>	Works out questions about tiles and circular objects	<p>Read given word problems</p> <p>Explains how to get area of wasted materials.</p>	<p>Discussion s</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	<p>Calculating quantity of plates and tiles</p>	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 388</p> <p>Functional print mtc bk7 pg</p> <p>Understanding mtc bk7 pg</p> <p>Pri mtc for ug bk7 pg</p>	

9	5			<b>PACKING CUBES AND CUBOIDS</b> Finding number of cubes packed in a box and space left. Finding number of cuboids packed in a box and space left.	Works out number of cubes or cuboids packed in a cuboids Finds out amount of space left.	Explains how to pack at the bottom of layers	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Finding the quantity of cubes and cuboids Calculating volume of empty space left	A graph board A well drawn chart	MK MTC bk 7 page 406 Functional primary mtc bk7 pg Understanding mtc bk7 pg Primary mtc for ug bk7 pg	
	6			<b>PACKING TINS IN CUBOIDS</b> Finding number of tins packed in a box and space left. Finding space left after packing	Finds the number of tins packed in a box Calculates space left after packing	Explains steps followed when packing this in cuboids.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Finding the quantity of cylinders and amount of empty space left	A graph board A well drawn chart	MK MTC bk 7 page 407 Functional primary mtc bk7 pg Understanding mtc bk7 pg Primary mtc for ug bk7 pg	

9	7			<p>VOLUME</p> <p>Finding volume of a cylinder</p> <p>Finding radius/diameter given volume</p> <p>Finding difference in volume of cylinders.</p>	Works out volume of cylinders	<p>Describes a cylinder</p> <p>Explains steps taken to find volume of a cylinder</p>	<p>Discussions</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	Calculating the volume of cylinders	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 402 to 403</p> <p>Functional print bk7 pg293</p> <p>Understanding mtc bk7 pg 208</p> <p>Print mtc for ug bk7 pg</p>	
10	1			<p>SURFACE AREA OF A CYLINDER</p> <p>Finding T.S.A of cylinder when:</p> <p>Both ends are closed</p> <p>One end is open/closed</p> <p>Both ends open.</p>	Find surface area of the cylinder	Explains step, followed when finding surface area cylinder	<p>Discussions</p> <p>Group work</p> <p>Discovery</p> <p>Questions and answer</p>	<p>Critical thinking</p> <p>Problem solving</p> <p>Effective communication.</p>	Calculating total surface area of cylinders	<p>A graph board</p> <p>A well drawn chart</p>	<p>MK MTC bk 7 page 397 to 398</p> <p>Functional print bk7 pg</p> <p>Understanding mtc bk7 pg</p> <p>Print mtc for ug bk7 pg43</p>	

10	2			VOLUME OF A TRIANGULAR PRISM Finding volume of a triangular prism. Finding length, base or height given volume.	Works out the volume of a triangular prism	Explains steps taken to find volume of a triangular prism	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculating volume of triangular prisms	A graph board A well drawn chart	MK MTC bk 7 page 400 Functional prism mtc bk7 pg Understanding mtc bk7 pg Prism mtc for ug bk7 pg.	
	3			TOTAL SURFACE AREA OF A TRIANGULAR PRISM Of a triangular prism. Applying Pythagoras theorem	Finds the surface area of a triangular prism	Describes a triangular prism.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculating total surface area of triangular prisms	A graph board A well drawn chart	MK MTC bk 7 page 395 to 396 Functional prism mtc bk7 pg Understanding mtc bk7 pg Prism mtc for ug bk7 pg	



10	4			VOLUME OF A TRAPEZOIDAL PRISM Volume of a trapezoidal prism Volume combined shapes	Works out volume of a trapezoidal prism	Describes trapezoidal prism.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculating volume of trapezoidal prisms	A graph board A well drawn chart	MK MTC bk 7 page 401. Functional prism mtc bk7 pg Understanding mtc bk7 pg Prism mtc for ug bk7 pg	
	5			AVERAGE SPEED Average speed for the whole journey Average speed while travelling	Works out steps taken when finding average speed	Explains the steps taken when finding average speed	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Solving problems involving average speed	A graph board A well drawn chart	MK MTC bk 7 page Functional prism mtc bk7 pg Understanding mtc bk7 pg	

10	6			TIME TABLE	Works out problems related to time tables	Describes different time tables	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Reading time tables Solving problems involving time	A graph board A well drawn chart	MK MTC bk 7 page Functional primary mtc bk7 pg Understanding mtc bk7 pg Primary mtc for ug bk7 pg	
	7			EXCHANGE RATES Works out problems related to exchange rates			Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculates problems involving exchange rates	A graph board A well drawn chart	MK MTC bk 6 page Functional primary mtc bk7 pg Understanding mtc bk7 pg Primary mtc for ug bk7 pg	