## S.D.M BATVALLEY PRIMARY SCHOOL, P.O BOX 5122, KAMPALA

## PRIMARY SEVEN MATHS SCHEME OF WORK TERM, 2017

W	P	II	T	SUB TOPIC/ CONTENT	COMPETENC	ES	METHODS	LIFE SKILLS &	ACTIVITI ES	INSTRU CTIONA	REF.	REM
K	D	THEME	TOPIC	CONTENT		· · · · · · · · · · · · · · · · · · ·		VALUES &	ES	L		
		Æ	С		SUBJECT The learner,	LANGUAGE The learner				MATERI ALS		
1	1	SETS	SET CONCEPTS	Application of sets 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 diagramsRead sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -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		EPTS	Application of sets 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 diagramsRead sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	Critical thinking -Effective communi cationProblem solvi	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	Trs own collection	
		SETS	SET CONCEPTS									

1	3	SETS	SET CONCEPTS	Application of sets 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 diagramsRead sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	Trs own collection	
	4	SETS	SET CONCEPTS	Application of sets 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 diagramsRead sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	Trs own collection	
	5	SETS	SET CONCEPTS	Application of sets 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 diagramsRead sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	Trs own collection	

1	6	SETS	SET CONCEPTS	Sets in 3 Venn diagrams -Describing shaded parts -Shading given regions	Represents information on the Venn diagrams Solves problems involving Venn diagram	-Explains information on Venn diagramsRead sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	MTC bk 7 page page 12 to 13 Function al pri mtc bk7 pg8 Understa nding mtc bk7 pg 9	
	7	SETS	SET CONCEPTS	-Interpreting 3 venn diagram setsCompleting3 Venn diagrams	Represents information on the Venn diagrams Solves problems involving Venn diagram	-Explains information on Venn diagramsRead sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	MTC bk 7 page 13 to 15 Function al pri 8mtc bk7 pg Understa nding 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 diagramsRead sentences related to Venn diagrams.	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -Problem solving	Solving real life problems involving venn diagrams	Ropes Cups Balls Books Pencils Pens	MTC bk 7 page 13 to 15 Function al pri mtc bk7 pg8 Understa nding mtc bk7 pg 9	

2	2	NUMERACY	FRACTONS	Sharing in ratios 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	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -Problem solving	Solving problems involving applicatio n of ratios	A variety of objects	MK MTC bk 7 page 98 to 99 Function al pri mtc bk7 pg107 Understa nding mtc bk7 pg 136 Pri mtc for ug bk7 pg66
	3	NUMERACY	FRACTONS(RATIOS)	Sharing in ratios Given The share of one person. Example Paul and James Shared some money in the ratio of 3:5 respectively. If James got shs. 3000, Find i.Paul's share. ii.their total share.	Calculates the related questions	-reads the given word problems	Discussion s Group work Discovery Questions and answer	-Critical thinking -Effective communi cation -Problem solving	Solving problems involving applicatio n of ratios	A variety of objects	MK MTC bk 7 page 98 to 99 Function al pri mtc bk7 pg108 Understa nding mtc bk7 pg 137 Pri mtc for ug bk7 pg

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2	4			Given difference in	Works out	Reads related	Discussion	-Critical	Solving	A	MK
_				shares.	questions related	questions	S	thinking	problems	variety	MTC bk
				Example.	to the given		Group	-Effective	involving	of	7 page
				A and B Shared some	examples		work	communi	applicatio	objects	98 to 99
				money in the ratio of 3:5			Discovery	cation	n of ratios		Function
				respectively. If B got			Questions	-Problem			al pri
			$\widehat{\mathbf{s}}$	shs.4000 more than A,			and	solving			mtc bk7
			10	find			answer				pg
			AT	i.the share of A							Understa
			$\mathbb{R}$	ii.their total share.							nding
		Շ	NS								mtc bk7
		NUMERACY	FRACTONS(RATIOS)								pg
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		בֿ	$\mathbb{R}^{\!$								for ug
		Z	Щ_								bk7 pg
	5			; Decimals	Works out	Reads questions	Discussion	Problem	Solving	Counter	Trs own
				Combined Operations	combined	States and	S	solving	mixed	S	collectio
				Work out:	operations on	describes	Group	Critical	operations		n
			SC	1. $(3 + 0.2) \div (0.1 + 2.8)$	decimals	BODMAS .	work	thinking	on		
			Ĭ	$2.(12.9-3) \div (0.2+2.8)$			Discovery	Logical	decimals		
			X.				Questions	thinking			
			S(I				and				
		()	$\sim$				answer				
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		NUMERACY	FRACTONS(RATIOS)								
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2	6	NUMERACY	FRACTONS(RATIOS)	Recurring decimals 1.Express 1/3 as a decimal. 2. Change 0.333 to a common fraction 3. Change 0.1222 to common fraction	Change fractions into decimals	Changes decimals into fractions	Discussion s Group work Discovery Questions and answer	Problem solving Critical thinking Logical thinking	Writing repeating and non repeating decimals	Multipli cation tables	MK MTC bk 7 page 74 - 76 Function al pri mtc bk7 pg122 Understa nding mtc bk7 pg 126 Pri mtc for ug bk7 pg	
	7	NUMERACY	FRACTONS(RATIOS)	Combined operations on fractions 1. Simplify: $5/6 - 1/3 + \frac{1}{2}$ $1/3$ of $(1/2 - \frac{1}{4}) + \frac{7}{12}$	Works out problems using BODMAS	Describes BODMAS Reads given questions	Discussion s Group work Discovery Questions and answer	Problem solving Critical thinking Logical thinking	Applying BODMAS in combined operations of fractions	Chalk board illustrati ons	MK MTC bk 7 page 74 -76 supplem entary mtc Understa nding mtc bk7 pg 110	

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3	1	NUMERACY	FRACTONS(RATIOS)	Applications of fractions Simple application 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 s Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	Chalk board illustrati ons	MK MTC bk 7 page Function al pri mtc bk7 pg Understa nding mtc bk7 pg 111 Supplem entary mtc	
	2	NUMERACY	FRACTONS(RATIOS)	FRACTIONS Complex application 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 s Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Solving problems involving application of fractions	Chalk board illustrati ons	MK MTC bk 7 page Function al pri mtc bk7 pg Understa nding mtc bk7 pg 111 Pri mtc for ug bk7 pg	

3	3		FRACTONS(RATIOS)	FRACTIONS Taps, digging etc. 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 containe rs of differen t sizes -Chalk board illustrati ons	MK MTC bk 7 page79 Function al pri mtc bk7 pg Understa nding mtc bk7
		NUMERACY	FRACTON								pg Pri mtc for ug bk7 pg 79
	4	NUMERACY	FRACTONS(RATIOS)	APPLICATIONS OF FRACTIONS Finding remainders given one fraction 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 illustrati ons	MK MTC bk 7 page Function al pri mtc bk7 pg
	5	NUMERACY	FRACTONS(RATIOS)	APPLICATION OF FRACTIONS Finding remainders given two fraction 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 illustrati ons	Trs own collection

3	6	NUMERACY	FRACTONS(RATIOS)	APPLICATIONS OF FRACTIONS Finding fraction of the remainder. On a farm, 2/3 of the animals are black, ½ of the remaining are brown. Find: 1. A third of the remaining fraction. 2. 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 illustrati ons	Trs own collection	
	7	NUMERACY	FRACTONS(RATIOS) FF	APPLICATION OF FRACTIONS INVOLVING REMAINDERS John spent 1/3 of his money on books and 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 illustrati ons	MK MTC bk 7 page 78 Function al pri mtc bk7 pg Understa nding mtc bk7 pg 112	

4	1	NUMERACY	FRACTONS(RATIOS)	APPLICATION OF PERCENTAGE 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.	Discussion s Group work Discovery Questions and answer	Problem solving Effective communi cation Critical thinking Logical thinking	Solving problems involving the application of proportions and percentages in real life	Chalk board illustrati ons	MK MTC bk 7 page 113 & 114 Function al pri mtc bk7 pg129 Understa nding mtc bk7 pg Pri mtc for ug bk7 pg
	2	NUMERACY	FRACTONS(RATIOS)	PERCENTAGE INCREASE AND DECREASE 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.	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 illustrati ons	MK MTC bk 7 page 115 & 117 Function al pri mtc bk7 pg 131 Understa nding mtc bk7 pg Pri mtc for ug bk7 pg

4	3	NUMERACY	FRACTONS(RATIOS)	FINDING ORIGINAL NUMBER AFTER %AGE INCREASE/DECREAS E  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.	Discussion s Group work Discovery Questions and answer	Critical thinking Logical thinking	Solving problems involving the applicatio n of proportion s and percentage s in real life	Chalk board illustrati ons	MK MTC bk 7 page 118 & 120 Function al pri mtc bk7 pg131 Understa nding mtc bk7 pg 139 Pri mtc for ug
	4	NUMERACY	FRACTONS(RATIOS) FI	FINDING %AGE OF INCREASE/DECREAS E  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.	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 illustrati ons	bk7 pg MK MTC bk 7 page 121 to 122 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg

4	5	NUMERACY	FRACTONS(RATIOS)	PERCENTAGE PROFIT AND LOSS  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.	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 illustrati ons	MK MTC bk 7 page 123 & 124 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg	
	6	NUMERACY	FRACTONS(RATIOS)	FINDING SELLING PRICE GIVEN % AGE PROFIT/LOSS 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.	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, textboo ks. Chalk board illustrati ons	MK MTC bk 7 page 128 Function al pri mtc bk7 pg135 Understa nding mtc bk7 pg 232 Pri mtc bk7 pg108	

4 7 NUMERACY	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 Function al pri mtc bk7 pg137 Understa nding mtc bk7 pg Pri mtc bk7 pg108	
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5	1	NUMERACY	FRACTONS(RATIOS)	DISCOUNT 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.	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, textboo ks. Chalk board illustrati ons	MK MTC bk 7 page 129 to 131 Function al pri mtc bk7 pg137 Understa nding mtc bk7 pg 234 Pri mtc bk7 pg109
5	2	NUMERACY	FRACTONS(RATIOS)	COMMISSION 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.	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, textboo ks. Chalk board illustrati ons	MK MTC bk 7 page 132 to 133 Pri mtc for ug bk7 pg Revision primary mtc

	3			SIMPLE NTEREST	Works out	Reads given	Discussion	Critical	Solving	Α	MK	
	3			Finding simple interest	problems on	word, questions	S	thinking	problems	variety	MTC bk	
				Finding amount	percentages in	involving	Group	Logical	involving	of bank	7 page	
				I manig amount	daily life	percentages	work	thinking	the	notes.	134 to	
						Describes the	Discovery	umiking	applicatio	notes.	135	
						meaning of	Questions		n of		Function	
						percent.	and		proportion		al pri	
						percent.	answer		s and		mtc bk7	
			OS						percentage		pg141	
			Į.						s in real		Understa	
			R∕						life		nding	
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		1ER	CI								Pri mtc	
		NUMERACY	FRACTONS(RATIOS)								for ug	
		Z	H								bk7 pg	
5	4			SIMPLE NTEREST	Works out	Reads given	Discussion	Critical	Solving	Chalk	MK	
				Finding principal	problems on	word, questions	S	thinking	problems	board	MTC bk	
				Finding time	percentages in	involving	Group	Logical	involving	illustrati	7 page	
				Finding rate	daily life	percentages	work	thinking	the	ons	138 to	
						Describes the	Discovery		applicatio		143	
						meaning of	Questions		n of		Function	
						percent.	and		proportion		al pri	
			(S)				answer		s and		mtc bk7	
									percentage		pg141	
			\X						s in real		Understa	
			S(F						life		nding mtc bk7	
		NUMERACY	FRACTONS(RATIOS)									
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5	RETATION OF GRAPH AND DATA HANDLING	NATE GRAPHS	COORDINATES Identifying lines Plotting points.	Presents and interprets information on a coordinate graph.	Reads information on graphs Explains what steps are followed when presenting data on graphs.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Plotting graphs of ordered pairs of coordinate s and interpretin g informatio n	A graph board A well drawn chart	MK MTC bk 7 page 175 to 177 Function al pri mtc bk7 pg162 Understa nding mtc bk7 pg Pri mtc bk7 pg124	
	INTERPRETATION OF	COORDINATE G									

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.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Plotting graphs of ordered pairs of coordinate s and interpretin g informatio n	A graph board A well drawn chart	MK MTC bk 7 page 178 to 179 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc 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.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	Plotting graphs of ordered pairs of coordinate s and interpretin g informatio n	A graph board A well drawn chart	MK MTC bk 7 page 180 to 183 Function al pri mtc bk7 pg162 Pri mtc bk7 pg124	

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6	1		COORDINATES	Presents and	Reads	Discussion	Critical	Plotting	A graph	MK
U			-Using equation of the	interprets	information on	S	thinking	graphs of	board	MTC bk
		AND	line to complete tables	information on a	travel graphs	Group	Problem	ordered	A well	7 page
		H	-Plotting lines.	coordinate graph.	Explains what	work	solving	pairs of	drawn	184 to
		AP			steps are	Discovery	Effective	coordinate	chart	186
		GRAPH			followed when	Questions	communi	s and		Function
		٦ <u>.</u>			presenting data	and	cation.	interpretin		al pri
		Ž (			on graphs.	answer		g		mtc bk7
		일						informatio		pg162
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		RE'								Pri mtc
		RP								for ug
		INTERPRETATION OF								bk7
		≥ 4								pg124
	2		TRAVEL GRAPHS	Presents and	Reads	Discussion	Critical	Presenting	A graph	MK
			-Reading horizontal	interprets	information on	S	thinking	and	board	MTC bk
		Z	scales.	information on a	travel graphs	Group	Problem	interpretin	A well	7 page
		Į	Reading vertical scales.	travel graph.	Explains what	work	solving	g	drawn	166 to
		(AP			steps are	Discovery	Effective	informatio	chart	172
		GR			followed when	Questions	communi	n on travel		Function
		OF			presenting data	and	cation.	graphs		al pri
		Z u			on graphs.	answer				mtc bk7
		)III								pg186
		INTERPRETATION OF GRAPH AND								Understa
		PRE LA								nding
		ERF								mtc bk7
		IT Y								pg 169
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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.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	Presenting and interpretin g informatio n on travel graphs	A graph board A well drawn chart	MK MTC bk 7 page 166 to 172 Understa nding 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.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Presenting and interpretin g informatio n on travel graphs	A graph board A well drawn chart	MK MTC bk 7 page 173 to 174 Understa nding 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.	Discussion s 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 Function al pri mtc bk7 pg Understa nding mtc bk7 pg 186 Pri 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.	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 Understa nding mtc bk7 pg 187 Pri mtc bk7 pg122

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

7	2	TEMPERATURE GRAPHS Drawing 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 communication.	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	
	3	APPLICATION OF MEAN. The mean of y+1, 5 and y is 6.Find the value of y	Solves problems involving application of mean, median, mode and range.	Discusses ways of finding mean, median, mode and range.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	Calculatin g problems involving the applicatio n of mean, median, mode and range	A graph board A well drawn chart	Trs own collection	

7	4			PROBABILITY 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 communi cation.	Calculatin g probabiliti es of numbers	A graph board A well drawn chart	Trs own collection	
	5			PROBABILITY 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.	Calculatin g probabiliti es of numbers	A graph board A well drawn chart	MK MTC bk 7 page 188 to 191 Function al pri mtc bk7 pg172 Pri mtc bk7pg13 5	
	6	MEASUREMENTS	LENGTH, MANASS D CAPACITY	CIRCUMFERENCE -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 communi cation. Decision making	Calculatin g circumfere nce of a circle	A graph board A well drawn chart	MK MTC bk 7 page 367 to 371 Function al pri mtc bk7 pg228 Pri mtc bk7 pg221	

7	7	APPLICATION OF CIRCUMFERENCE -Finding circumference of a circle -Finding radius given circumference -Finding diameter given circumference	Calculates number of poles and spaces (closed and open fences)	Describes the steps followed when finding number of revolution	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g circumfere nce of a circle	A graph board A well drawn chart	MK MTC bk 7 page 367 to 371 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg
8	1	APPLICATION OF CIRCUMFERENCE(Rev olution) -Finding number of revolutions given distances and diameter/radiusFinding diameter/radius given distance given revolutions and diameter.	Finds number of revolutions.	Describes the steps followed when finding No. of poles and spaces	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	Calculatin g circumfere nce of a circle	A graph board A well drawn chart	MK MTC bk 7 page 376 to 377

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8	2		PERIMETER OF	Finds perimeter of	Describes a	Discussion	Critical	Finding	A graph	MK
O			SEMICIRCLES	semi circle	semi circle	S	thinking	perimeter	board	MTC bk
			- Find length of arcs		Explains the	Group	Problem	of parts of	A well	7 page
			-Finding perimeter of		steps followed	work	solving	a circle	drawn	372
			semi circle		when finding	Discovery	Effective		chart	Function
					perimeter of	Questions	communi			al pri
					semi circle.	and	cation.			mtc bk7
						answer				pg Understa nding mtc bk7
										pg Pri mtc
										for ug
										bk7 pg
	3		PERIMETER OF	Calculates	Explains the	Discussion	Critical	Finding	A graph	MK
			QUADRANTS	perimeter of	steps taken to	S	thinking	perimeter	board	MTC bk
			Finding lengths of arcs	quadrant	find the	Group	Problem	of parts of	A well	7 page
			Finding perimeter of		perimeter of a	work	solving	a circle	drawn	372 Pri
			quadrants		quadrant	Discovery	Effective		chart	mtc for
						Questions	communi			ug bk7
					Describes a	and	cation.			pg
					quadrant.	answer				

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8	4		PERIMETER OF	Finds perimeter of	Explains taken	Discussion	Critical	Calculatin	A graph	MK
			COMBINED SHAPES	combined shapes	to find	S	thinking	g .	board	MTC bk
			AND SHADED REGION	Calculates	perimeter of	Group	Problem	perimeter	A well	7 page
			Perimeter of combined	perimeter of	combined	work	solving	of	drawn	373 to
			shapes	shaded parts	shapes and	Discovery	Effective	combined	chart	374
			Perimeter of shaded parts		shaded portions.	Questions	communi	shapes		Function
						and	cation.			al pri
						answer				mtc bk7
										pg
										Understa
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										mtc bk7
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										Pri mtc
										for ug
										bk7 pg
	5		AREA OF A CIRCLE	Works out the	Describes the	Discussion	Critical	Calculatin	A graph	MK
			Finding area of a semi	area of a circle	meaning of Pi	S	thinking	g area of a	board	MTC bk
			circle given		Explains the	Group	Problem	circle and	A well	7 page
			radius/diameter.		steps followed	work	solving	its parts	drawn	378 to
			Finding radius/diameter		when finding	Discovery	Effective		chart	382
			given area of circle.		area of a circle	Questions	communi			Function
						and	cation.			al pri
						answer				mtc bk7
										pg232
										Understa
										nding
										mtc bk7
										pg
										Pri mtc
										bk7
										pg223

8	6	AREA OF A SEMI CIRCLE Finding area of a semi circle given radius/diameter. Finding radius Diameter/given area.	Calculate the area of a semi circle	Explains the steps taken to find area of a semi circle.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	Calculatin g area of a circle and its parts	A graph board A well drawn chart	MK MTC bk 7 page 383 to 384 Function al pri mtc bk7 pg232 Understa nding mtc bk7
_	7	AREA OF A QUADRANT Finding area of quadrant. Finding radius/diameter given area.	Works out area of a quadrant	Explains the steps taken to find area of quadrants.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g area of a circle and its parts	A graph board A well drawn chart	MK MTC bk 7 page383 to384 Function al pri mtc bk7 pg232 Understa nding mtc bk7 pg

9	1	PERIMETER AND AREA OF OTHER SECTORS 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	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g perimeter of sectors	A graph board A well drawn chart	MK MTC bk 7 page 383 to 384 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg	
	2	AREA OF COMBINED SHAPES 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.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g area of combined shapes	A graph board A well drawn chart	MK MTC bk 7 page 385 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg	

9	3	AREA OF SHADED AND UNSHADED PARTS A circle in a circle A circle in a trapezium A semi circle in a parallelogram	Calculates area of shaded and un shaded regions	Describes the shaded regions. Explains the steps taken when finding area of shaded parts.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Finding area of shaded or unshaded regions	A graph board A well drawn chart	MK MTC bk 7 page 386 to388 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg36
	4	APPLICATION OF AREA Cutting circular plates from rectangular sheet Placing rectangular tiles on rectangular floor Placing square tiles on floor.	Works out questions about tiles and circular objects	Read given word problems Explains how to get area of wasted materials.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g quantity of plates and tiles	A graph board A well drawn chart	MK MTC bk 7 page 388 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg

9	5	PACKING CUBES AND CUBOIDS 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	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Finding the quantity of cubes and cuboids Calculatin g volume of empty space left	A graph board A well drawn chart	MK MTC bk 7 page 406 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg	
	6	PACKING TINS IN CUBOIDS 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.	Discussion s 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 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg	

9	7	VOLUME Finding volume of a cylinder Finding radius/diameter given volume Finding difference in volume of cylinders.	Works out volume of cylinders	Describes a cylinder Explains steps taken to find volume of a cylinder	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g the volume of cylinders	A graph board A well drawn chart	MK MTC bk 7 page 402 to 403 Function al pri mtc bk7 pg293 Understa nding mtc bk7 pg 208 Pri mtc for ug bk7 pg
1 0	1	SURFACE AREA OF A CYLINDER Finding T.S.A of cylinder when: Both ends are closed One end is open/closed Both ends open.	Find surface area of the cylinder	Explains step, followed when finding surface area cylinder	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g total surface area of cylinders	A graph board A well drawn chart	MK MTC bk 7 page 397 to 398 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg43

1 0	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	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g volume of triangular prisms	A graph board A well drawn chart	MK MTC bk 7 page 400 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri 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.	Discussion s Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	Calculatin g total surface area of triangular prisms	A graph board A well drawn chart	MK MTC bk 7 page 395 to 396 Function al pri mtc bk7 pg Understa nding mtc bk7 pg Pri mtc for ug bk7 pg

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1	4	VOLUME OF A	Works out volume	Describes	Discussion	Critical	Calculatin	A graph	MK	
I		TRAPEZOIDAL PRISM	of a trapezoidal	trapezoidal	S	thinking	g volume	board	MTC bk	
0		Volume of a trapezoidal	prism	prism.	Group	Problem	of	A well	7 page	
V		prism			work	solving	trapezoida	drawn	401.	
		Volume combined shapes			Discovery	Effective	1 prisms	chart	Function	
		The state of the s			Questions	communi			al pri	
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		ATTENDA OF ORDER				~	~		bk7 pg	
	5	AVERAGE SPEED	Works out steps	Explains the	Discussion	Critical	Solving	A graph	MK	
		Average speed for the	taken when	steps taken	S	thinking	problems	board	MTC bk	
		whole journey	finding average	when finding	Group	Problem	involving	A well	7 page	
		Average speed while	speed	average speed	work	solving	average	drawn	Function	
		travelling			Discovery	Effective	speed	chart	al pri	
					Questions	communi			mtc bk7	
					and	cation.			pg	
					answer				Understa	
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1	6	TIME TABLE	Works out	Describes	Discussion	Critical	Reading	A graph	MK
			problems related	different time	S	thinking	time tables	board	MTC bk
$\downarrow 0$			to time tables	tables	Group	Problem	Solving	A well	7 page
					work	solving	problems	drawn	Function
					Discovery	Effective	involving	chart	al pri
					Questions	communi	time		mtc bk7
					and	cation.			pg
					answer				Understa
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									bk7 pg
	7	EXCHANGE RATES			Discussion	Critical	Calculates	A graph	MK
		Works out problems			S	thinking	problems	board	MTC bk
		related to exchange rates			Group	Problem	involving	A well	6 page
					work	solving	exchange	drawn	Function
					Discovery	Effective	rates	chart	al pri
					Questions	communi			mtc bk7
					and	cation.			pg
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