PRIMARY SEVEN MATHS SCHEME OF WORK

WK	PD	THEME	TOPIC	SUB TOPIC/ CONTENT	COMPETENCES		METHODS	LIFE SKILLS	ACTIVITIES	INST. MATERIALS	REF.	REM
					SUBJECT The learner,	LANGUAGE The learner						
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 diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A well drawn chart	MK MTC bk 7 page 12 to 13 Underst. Mtc bk 7 page 9 to 10	

	2	SETS	SET CONCEPTS	**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 diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	Critical thinking - Effective communication. -Problem solvi	Reading Drawing Answering oral questions	A well drawn chart	Trs own collection	
	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 diagra	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A well drawn chart	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 diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A well drawn chart	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 diagra	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A well drawn chart	Trs own collection	
2	1	**SETS**	SET CONCEPTS	**Sets in 3 Venn diagrams** -Describing shaded parts -Shading given regions	Represents information on the Venn diagrams. - Solves problems involving Venn diagra	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A well drawn chart	MTC bk 7 page page 12 to 13	

	2	**SETS**	SET CONCEPTS	-Interpreting 3 venn diagram sets. -Completing3 Venn diagrams	Represents information on the Venn diagrams. - Solves problems involving Venn diagra	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A well drawn chart	MTC bk 7 page 13 to 15	
	3	**SETS**	SET CONCEPTS	Application of 3 Venn diagram sets	Represents information on the Venn diagrams. - Solves problems involving Venn diagra	-Explains information on Venn diagrams. -Read sentences related to Venn diagrams.	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A well drawn chart	MTC bk 7 page 13 to 15	
	4	**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	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A variety of objects	MK MTC bk 7 page 98 to 99	

	5	**NUMERACY**	FRACTONSRATIOS	**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	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A variety of objects	MK MTC bk 7 page 98 to 99	
3	1	**NUMERACY**	FRACTONSRATIOS	**Given difference in shares. Example.** 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	Discussions Group work Discovery Questions and answer	-Critical thinking - Effective communication -Problem solving	Reading Drawing Answering oral questions	A variety of objects	MK MTC bk 7 page 98 to 99	
	2	**NUMERACY**	FRACTONS(RATIOS)	**Given perimeter of a rectangle and a triangle Example;** Work out: 1. (3 + 0.2) ÷ (0.1 + 2.8) 2. (12.9 – 3) ÷ (0.2 + 2.8)	Works out related fractions	The learner; reads given questions.	Discussions Group work Discovery Questions and answer	Problem solving Critical thinking Logical thinking	Reading Drawing Answering oral questions	A well drawn chart	Trs own collection	

	3	**NUMERACY**	FRACTONS(RATIOS)	**Decimals Combined Operations** Recurring decimals 1.Express 1/3 as a decimal. 2. Change 0.333.. to a common fraction 3. Change 0.1222.. to common fraction	Works out combined operations on decimals	Reads questions States and describes BODMAS	Discussio ns Group work Discovery Questions and answer	Problem solving Critical thinking Logical thinking	Reading Drawing Answerin g oral questions	Chalk board illustrati ons	MK MTC bk 7 page 74 - 76	
	4	**NUMERACY**	FRACTONS(RATI OS)	**Combined operations on fractions** 1.Simplify: 5/6 – 1/3 + ½ 1/3 of (1/2 – ¼) + 7/12	Works out problems using BODMAS	Describes BODMAS Reads given questions	Discussio ns Group work Discovery Questions and answer	Problem solving Critical thinking Logical thinking	Reading Drawing Answerin g oral questions	Chalk board illustrati ons	MK MTC bk 7 page 74 -76	
	5	**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	Discussio ns Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Reading Drawing Answerin g oral questions	Chalk board illustrati ons	MK MTC bk 7 page	
4	1	**NUMERACY**	FRACTONS(RATI OS)	**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	Discussio ns Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Reading Drawing Answerin g oral questions	Chalk board illustrati ons	MK MTC bk 7 page	

	2	**NUMERACY**	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 tapstake to fill the tank if opened at the same time?	Works out questions involving application of fractions	Read questions	Discussio ns Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Reading Drawing Answerin g oral questions	Variety of containe rs of differen t sizes - Chalk board illustrati ons	MK MTC bk 7 page 79	
	3	**NUMERACY**	FRACTONS(RATI OS)	**APPLICATIONS OF FRACTIONS** **Finding remainders given one fraction** 4/5 of the class are boys and the rest are girls. Find the fraction of gir**ls**	Works out questions involving application of fractions	Read questions	Discussio ns Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Reading Drawing Answerin g oral questions	-Chalk board illustrati ons	MK MTC bk 7 page	
	4	**NUMERACY**	FRACTONS(RATI OS)	**APPLICATION OF FRACTIONS** **Finding remainders given two fraction** ¼ 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	Discussio ns Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Reading Drawing Answerin g oral questions	Chalk board illustrati ons	Trs own collectio n	

	5	**NUMERACY**	FRACTONS(RATIOS)	**APPLICATIONS OF FRACTIONS** **Finding fraction of the remainder**. On a farm, 2/3 of the animals are black, ¼ 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	Discussions Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Reading Drawing Answering oral questions	Chalk board illustrations	Trs own collection	
5	1	**NUMERACY**	FRACTONS(RATIOS)	**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	Discussions Group work Discovery Questions and answer	Problem solving Critical thinking Co operation	Reading Drawing Answering oral questions	Chalk board illustrations	MK MTC bk 7 page 78	

	2	**NUMERACY**	FRACTONS(RATIOS)	**APPLICATION OF PERCENTAGE** 1. Opio has 400 herds of cattle. 80% of them are cowsand 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 percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Problem solving Effective communication Critical thinking Logical thinking	Reading Drawing Answering oral questions	Chalk board illustrations	MK MTC bk 7 page 113 & 114	
	3	**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 percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Reading Drawing Answering oral questions	Chalk board illustrations	MK MTC bk 7 page 115 & 117	
	4	**NUMERACY**	FRACTONS(RATIOS)	**FINDING ORIGINAL NUMBER AFTER %AGE INCREASE/DECREASE** 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 percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Reading Drawing Answering oral questions	Chalk board illustrations	MK MTC bk 7 page 118 & 120	

	5	**NUMERACY**	FRACTONS(RATIOS)	**FINDING %AGE OF INCREASE/DECREASE** 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 percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Reading Drawing Answering oral questions	Chalk board illustrations	MK MTC bk 7 page 121 to 122	
6	1	**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 percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Reading Drawing Answering oral questions	Chalk board illustrations	MK MTC bk 7 page 123 & 124	
	2	**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 ws 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	Reading Drawing Answering oral questions	A variety of items in class like bags, textbooks. Chalk board illustrations	MK MTC bk 7 page 128	

	3	**NUMERACY**	FRACTONS(RATIOS)	FINDING COST PRICE GIVEN %AGE PROFIT/LOSS	Works out problems on percentages in daily life	Reads given word, questions involving percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Reading Drawing Answering oral questions	A variety of items in class like bags, textbooks. Chalk board illustrations	MK MTC bk 7 page 125 to 126	
	4	**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 percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Reading Drawing Answering oral questions	A variety of items in class like bags, textbooks. Chalk board illustrations	MK MTC bk 7 page 129 to 131	

	5	**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 percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Reading Drawing Answering oral questions	A variety of items in class like bags, textbooks. Chalk board illustrations	MK MTC bk 7 page 132 to 133	
7	1	**NUMERACY**	FRACTONS(RATIOS)	SIMPLE NTEREST Finding simple interest Finding amount	Works out problems on percentages in daily life	Reads given word, questions involving percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	Reading Drawing Answering oral questions	A variety of bank notes.	MK MTC bk 7 page 134 to 135	
	2	**NUMERACY**	FRACTONS(RATIOS)	SIMPLE NTEREST Finding principal Finding time Finding rate	Works out problems on percentages in daily life	Reads given word, questions involving percentenges Describes the meaning of percent.	Discussions Group work Discovery Questions and answer	Critical thinking Logical thinking	-Reading -Drawing -Answering oral questions -Computing numbers	Chalk board illustrations	MK MTC bk 7 page 138 to 143	

	3	INTERPRETATION OF	GRAPH AND DATA COORDINATE GRAPHS	COORDINATES Identifying lines Plotting points.	Presents and interpretes 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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 175 to 177	
	4	INTERPRETATION OF	GRAPH AND DATA	COORDINATES Naming points	Presents and interpretes 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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 178 to 179	
	5	INTERPRETATION OF	GRAPH AND DATA	COORDINATES Plotting points Forming figures Finding areas	Presents and interpretes 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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 180 to 183	

8	1	INTERPRETATION OF	GRAPH AND DATA	COORDINATES -Using equation of the line to complete tables - Plotting lines.	Presents and interpretes 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.	-Reading -Drawing - Answering oral questions - Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 184 to 186	
	2	INTERPRETATION OF	GRAPH AND DATA	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.	-Reading -Drawing - Answering oral questions - Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 166 to 172	
	3	INTERPRETATION OF	GRAPH AND DATA	TRAVEL GRAPHS Interpreting drawn travel graph. Answering questions about the graph.	Presents and interpretes 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.	-Reading -Drawing - Answering oral questions - Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 166 to 172	

	4			TRAVEL GRAPHS Drawing travel graphs.	Presents and interpretes 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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 173 to 174	
	5			PIE CHARTS Showing degrees Showing percentages. Showing expressions.	Presents and interpretes 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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 157 to 161	
9	1			PIE CHARTS Drawing pie charts given; i.fractions ii.percentages	Presents and interpretes 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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 162 to 163	

	1			PIE CHARTS Drawing pie charts given; i.quantities (money, animals, people)	Presents and interpretes 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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 162 to 163	
	2			TEMPERATURE GRAPHS Scale reading. Inerpreting drawn temperature.graphs.	-Presents and interpretes information on temperature graphs	Reads information on temperature graphs. Explains what steps are followed when presenting data on temperature graphs.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 164 to 165	
	3			TEMPERATURE GRAPHS Drawing temperature graphs.	-Presents and interpretes information on temperature graphs	Reads information on temperature graphs. Explains what steps are followed when presenting data on temperature graphs.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 164 to 165	

	4			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.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	Trs own collection	
	5			PROBABILITY Probability of success/failure Probability when two teams play.	Calculates probabilities of numbers.	Discusses ways of finding probabilities of numbers.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	Trs own collection	
10	1			PROBABILITY Tossing one coin/two coins Tossing one dice/two dice.	Calculates probabilities of numbers..	Discusses ways of finding probabilities of numbers.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 188 to 191	

	2	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	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication. Decision making	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 367 to 371	
	3			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	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 367 to 371	
	4			APPLICATION OF CIRCUMFERENCE(Revolution) -Finding number of revolutions given distances and diameter/radius. -Finding diameter/radius given distance given revolutions and diameter.	Finds number of revolutions.	Describes the steps followed when finding No. of poles and spaces	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 376 to 377	

	5			PERIMETER OF SEMICIRCLES - 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.	Discussio ns Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	-Reading -Drawing -Answerin g oral questions -Computin g numbers	A graph board A well drawn chart	MK MTC bk 7 page 372	
1 1	1			PERIMETER OF QUADRANTS 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.	Discussio ns Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	-Reading -Drawing -Answerin g oral questions -Computin g numbers	A graph board A well drawn chart	MK MTC bk 7 page 372	
	2			PERIMETER OF COMBINED SHAPES AND SHADED REGION Perimeter of combined shapes Perimeter of shaded parts	Finds perimeter of combined shapes Calculates perimeter of shaded parts	Explains taken to find perimeter of combined shapes and shaded portions.	Discussio ns Group work Discovery Questions and answer	Critical thinking Problem solving Effective communi cation.	-Reading -Drawing -Answerin g oral questions -Computin g numbers	A graph board A well drawn chart	MK MTC bk 7 page 373 to 374	

	3			AREA OF A CIRCLE Finding area of a semi circle given radius/diameter. Finding radius/diameter given area of circle.	Works out the area of a circle	Describes the meaning of Pi Explains the steps followed when finding area of a circle	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 378 to 382	
	4			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.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 383 to 384	
	5			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.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page383 to384	

12	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	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 383 to 384	
	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.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 385	
	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.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 386 to388	

	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.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 388	
	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	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 406	
13	1			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.	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 407	

	2			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	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 402 to 403	
	3			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	Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 397 to 398	
	4			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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 400.	

	5			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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 395 to 396	
14	1			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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page 401.	
	2			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.	-Reading -Drawing -Answering oral questions -Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page	

	3			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 -Drawing - Answering oral questions - Computing numbers	A graph board A well drawn chart	MK MTC bk 7 page	
	4			EXCHANGE RATES Works out problems related to exchange rates			Discussions Group work Discovery Questions and answer	Critical thinking Problem solving Effective communication.	-Reading -Drawing - Answering oral questions - Computing numbers	A graph board A well drawn chart	MK MTC bk 6 page	