SCHEME OF WORK - TERM ONE

WK	PD	THEME	TOPIC	SUB TOPIC	CONTENT	Subject competence	Language competence	Life skills	Method	t/l aids	REF	REM.
1	1		Set Concepts	Types of sets	- Equal sets - Equivalent set - Unequal - Non equivalent sets - Matching sets	Spells Reads, pronounces and uses new words in the sentences	- Lists , counters, elements of different sets	- Creative thinking - Critical thinking - Problem solving - Effective communicati on - Interpersonal relationship	- Real objects - Flash cards - Charts - Containers - Counters - Stones - Sticks - Abacus - Papers	- creative thinking - Effective communicati on - Cooperation - Critical thinking - Problem solving	- Mk new edition pg 1-2 - Understanding mtcpp 1-3 - Fountain primtc 1-8 - Fountain pg 8- 10 - Curriculum pg 149-151	-
	2				Intersecting set Joint sets Disjoint sets Union sets Universal sets	-	Draws Venn diagrams Lists elements Identifies elements	- Do	- Do	- Do	-Do	-
	3	SETS			Difference of set Shading regions Complements of sets	-	- Finds difference of sets - Shades regions - Finds complements of sets	- Do	- Do	- Do	Do	-
	4				Subsets Listing and forming subsets Finding number of subsets and proper subsets	-	- Lists subsets \finds number of subsets	- Do	- Do	- Do	Do	-
	5			Finding number of elements	Listing elements Finding number of elements Representing elements on the venn diagram	Spells reads, pronounces and uses new words correctly	- Lists members - Finds number of elements	- Real objects	- Mathematical ruler	- Logical reasoning	Mk old edition pp 20-22	-
	6			Application of set concepts	Representing elects on the venn diagram Interpreting on the venn diagram Finding number of elements	-	Represents information on a venn diagram Interprets information on the venndiagram	- Think - Pair - Share	- Clock faces - Mtc sets - Learners - Manila cards - Boxes - C.compases - Bottle tops	-	Mk old edition 22-25	-

	1		1	1			- Finds number	1				
							of members on					
							the venn					
							diagram					
	7	<u>-</u>			- Interpreting word	- Interprets ,	_ diagram	_	_	_	Fountain 10-13	_
	'				problems	represents and	_	_	_	_	1 outilain 10-13	_
					- Representing	solves for unknown						
					information on the	on the venn diagram						
					venn diagram	on the venin diagram						
					- Solving for unknown							
	8	1		Probability	- Identifying the	- Spells, reads,	- Lists, finds,	_	- Do	_	Fountain pg 14-	_
	ľ				sample spaces	Pronounces and uses	identifies, and				16	
					- Listing elements	the words correctly	finds				Mk new edition	
					- Finding probability		probability				10-12	
	1		Whole	Place and	- Spells , reads ,	- Finds the place	-	-	-	-	Mk new edition	-
2			numbers	values	pronounces and uses	values and values					14-15	
-					the words correctly	and uses operations.					Fountain 20-23	
					•	•					Curriculum pg	
											152-154	
	2			Expanded	- Using values	=	- Expands	-	-	-	Fountain 23-24	-
				form	 Using place values 		numbers using				Mk new edition	
					- Using powers of tens		place values,				16-17	
					and multiplies of ten		powers of ten					
					 Finding expanded 		·					
					numerals.							
	3				- Scientific notation	-	- Writes	-	-	-		-
					/standard notation		numbers in					
		≿					scientific					
		NUMERACY					notation					
	4	<u> </u>		Expressing	 Expanded form of 	 Spells , read, 	 Multiplies 	- Do	- Number cards	- Do	Mk new edition	-
		l ₩		expanded	values, place values,	pronounces and uses	- Adds		 Real objects 		18-19	
		5		numbers as	exponents and	new words correctly	 Arranges 				Mk old 38-39	
		Z		single	multiples of ten		values					
				numbers			correctly				ļ	
	5			Writing	- Finds place values	- Do	 Finds place 	- Do	- Do	- Do	Do	-
				numbers in	 - \writes numerals in 		values			1	1	
				words	words upto million		- Writes in					
	<u> </u>	4					words		<u> </u>	<u> </u>	 	
	6			Words in	- Identifies place	- Do	 Identifies place 	- Do	- Do	- Do	Mk old edition	-
				figures	values		values				47-48	
					- Writes number words		- Finds the					
					in figures		number					
					- Arranges and adds		- Arranges			1	1	
	 	4		D " "	values correctly		values				NA 11 PC	
	7			Rounding off	- Identifying required	- Do	Identifies nearest	- Do	- Do	- Do	Mk old edition	-
					place values		place values and			1	48	
]	- Finding the nearest		requires place			1	Understanding	

			place values - Rounding off whole numbers		values Rounds off whole numbers				33-35	
	8	Decimal numbers	- Place values - Values	- Spells, reads, pronounces, and uses new words correctly	Finds place values And values of decimals	- Do	- Do	- Do	Mk old edition 42-44	-
3	1	Writing decimals in word sand figures	Finding place value s Writing in words Writing in figures	- Do	Finds place values Writes decimals in words and figures	- Do	- Do	- Do	Mk old edition 45-46	-
	2	Expanded form of decimals	- Expanding using place values, values and powers of ten	- Do	Expands using values, place values and exponents	- Do	- Do	- Do		-
	3	Finding expanded decimals	Multiplying , dividing, adding, arranging and finding expanded numbers	- Do	Multiples, divides, adds, and finds expanded numerals	- Do	- D	- Do	Do	-
	4	Ordering decimals	Ascending and descending Finds LCM Multiplying	Reads, spells , pronounces and uses words correctly	Finds LCM Multiples and arranges in order	- Do	- Do	- Do	Tr' collection	-
	5	Rounding off decimals	One place decimal Two place decimals Three place decimals and whole numbers	- Do	Identifies place values and rounds off correctly	- Do	- Do	- Do	Mk old edition 48	-
	6	Roman numerals	Expanding numbers Writing Hindu to Roman numerals to 1000 Writing roman to Hindu Arabic numerals	- Do	Expands Interprets and writes numerals to Hindu Arabic or roman numerals	- Do	- Do	- Do	Fountain 26-30	-
	7	Operation on Roman numerals	Changing roman to hindu Arabic ans vice versa Adding and subtracting	- Do	Changes to roman numerals or hind Arabic numerals Adds and subtracts	- Do	- Do	- Do	Mk old edition 50-51	-
	8	Bases	Counting in base two and five Naming non decimal base Converting to non decimal bases	Reads Pronounces Uses new words in sentences	Counts in base two and five Names non decimal bases Converts to non decimals bases	- Do	- Do	- Do	Tr's collection	-
			Expanding Identifying place values	- Do	Identifies place values and changes to base	- Do	- Do	- Do	Tr's collection	-

					 Changing to decimal base 		ten					
4	1				 Addition of bases Identifying place values Regrouping 	- Do	Regroups Identifies place values and adds in bases	- Do	- Do	- Do	Tr's collection	-
	2				Subtracting bases Regrouping Identifying place values Multiplying bases	- Do	Subtracts and multiplies	- Do	- Do	- Do	Tr's collection	-
	3		Fii	inite system	Grouping numbers n finite system Dividing using finite Adding using dial method Multiplying in finite	- Spells , read, pronounces and uses new words correctly	Counts Groups Divides Multiplies And adds using finite system	- Do	- Do	- Do	Mk old edition 245-253	-
	4				Regrouping using dial Subtracting in finite system	- Do	Regroups and subtracts in finite system	- Do	- Do	- Do	Do	-
	5				Solving equation in finite systemDividingFinding the unknown	- Do	Solves equation in finite system	- Do	- Do	- Do	Do	-
	6				 Application of finite Interpreting days and mass in finite system Finding past and future time in finite system 	- Do	Interprets days and mass Finds past and future time	- Do	- D	- Do	Do	-
	7	OPERATIONS ON WHOLE NUMBERS	wt	ddition of hole umbers	Identifying place values Arranging Adding	- Spells, reads , pronounces and uses new words correctly	Identifies place values Arranges and adds whole numbers	Cooperation Effective communicati on Creative thinking Critical thinking Problem solving	- Do	- Do	Understanding mtc 40-42	-
	8	TIONS ON	Sı	ubtraction	Identifying place values Arranging Subtracting	- Do	Identifies place values Arranges and subtracts whole numbers	- Do	- Do	- Do	Fountain 32-35	-
5	1	OPERA	Mı	ultiplication	Arranging according to place valuesRegroupingMultiplying	- Do	Arranges Regroups Multiplies	- Do	- Do	- Do	New mk edition 27 Fountain 33-34	-

	2		Division	- Using long division	- Do	Divides	- Do	- Do	- Do	New mk 29-30	-
				RegroupingMultiplyingSubtracting							
				- Dividing							
	3		Word problem	Interpreting statement Writing mathematical statements Dividing quantities	- Do	Interprets statements Writes mathematical statements Divides quantities	- D	- Do	- Do	Mk new 2-30 Fountain 37-38	-
	4		Mixed operation	- Using BODMAS	- Do	Interprets BODMAS correctly	- Do	- Do	- Do	New mk 37-32	-
	5		Properties of numbers	Commutative property Distributive property Associative property	- Do	Uses the properties correctly	- Do	- Do	- Do	Fountain 38-39	-
	6	Patterns and sequences	Divisibility tests	Divisibility tests of 2, and 10 Divisibility of 3,6, and 9 Divisibility of 4 and 8	- Do	Finds numbers exactly divisible by 2, 5, 10, 3, 6, 9, and 4 and 8	- Do	- Do	- Do	New mk 34-36 Fountain 41-42	-
	7		Developing number patterns	Odd and even numbers Triangular , square and whole numbers Counting numbers	- Do	Lists and completes number patterns	- Do	- Do	- Do	Fountain 43-48 Mk new 37	-
	8		Prime and composite numbers	Listing prime numbers Composite numbers	- Do	Lists and identifies composite and prime numbers	- Do	- Do	- Do	Old mk 77-78	-
6	1		Consecutive numbers	Natural numbers Counting numbers Integers Forming equation Solving equation	- Do	Forms number patterns and equations Solves	- D	- Do	- D	Fountain 43-49	-
	2			Even numbers Odd numbers Forming and solving equations Finding consecutive numbers	- Do	Finds consecutive even and odd numbers	- Do	- Do	- Do	D	-
	3		Factors	Listing factors Common factors HCF, GCF	- Do	Lists factors Identifies common factors Finds GCF	- Do	- Do	- Do	Mk old 82-83	-
	4		Prime factorization	Using multiplication Subscripts Powers	- Do	Uses factor tree or ladder to prime factorise	- Do	- Do	- Do	Mk old 86	-

	1	1		T = : :		T	1			1	
				- Factor tree		Writes prime					
				- Ladder		factors accordingly					
	5		Finding prime factorised numbers	Multiplying Interpreting powers and subscripts Finding prime factorised numbers	- Do	Interprets factors and subscripts correctly Finds numbers correctly	- Do	- Do	- Do	Old mk 86	-
	6	PATTERNS AND SEQUENCES	Multiples of numbers	Listing multiples c Common multiples LCM Prime factorizing	- Do	Lists /finds LCM Prime factorises numbers	- Do	- Do	- Do	Old mk 86-87	-
	7		LCM and GCF	Prime factorizing Listing prime factors Showing prime factor s on the venn diagram Finding LCM and GCF	- Do	Finds LCm and GCF using a venn diagram	- Do	- Do	- D	Do	-
	8		Prime factors on the venn diagram	Finding the missing prime factors Finding the HCF and the LCM	- Do	Finds unknown factors Finds GCF and LCM	- D	- Do	- Do	Mk old 88-89	-
7	1		Application of GCF and LCM	Relationship between GCF and LCM Multiplying numbers	- Do	Multiplies Finds unknown numbers Applies LCM and GCF	- D	- Do	- Do	Mk old 85	-
	2		Application of LCM	Prime factorizing Multiplying intervals Finding common numbers	- Do	Prime factorise Multiplies Finds LCM Applies LCM	- Do	- Do	- Do	Do	-
	3		Powers of whole numbers	Finding number of powers Expressing number of powers Operation of powers	- Do	Interprets powers Expresses number of as powers	- Do	- Do	- Do	Tr's collection	
	4		Square of numbers	- Squares of - Whole numbers - Fractions - Mixed numbers - Decimals	- Do	Finds squares	- Do	- Do	- Do	Mk old 39-40	
	5		Square roots	Prime factorizing Writing prime factors Finding square roots	- Do	Prime factoises Writes prime factors In multiplication form Finds square roots	- Do	- Do	- Do	New mk 39 Tr's collection	

	6			Square roots	- Finding prime factors	- Do	Do	- Do	- Do	- Do	Tr's collection
				of fraction	 Changing decimal to 	20					
					common fraction						
					- Mixed to common						
					fraction - Finds square roots						
	7			Application of	- Forming equations	- Do	Forms equation	- Do	- D	- Do	Tr's collection
	1			square roots	- Prime factorizing	- 00	Prime factorise	- 00	- 0	- 00	11's collection
				oquare roots	- Finding square roots		Uses square roots				
	8			Cube and	- Finding cubes	- Do	Finds cubes and	- Do	- Do	- Dod	Fountain 49
				cube roots	 Forming equations 		cube roots				
					 Finding cube roots 						
8	1			Sequences	 Identifying types of 	- Do	Identifies types of	- Do	- Do	- Do	Do
0					number		numbers				
					 Finding number patterns 		Finds pattern numbers				
					- Completing sequence		Completes the				
					- Completing sequence		sequences				
	2			Puzzle and	- Forms puzzles	- Do	Forms magic	- Do	- Do	- Do	Understanding
				magic square	- Finding magic sum		square				mtc 74
					 Completing magic 		Completes magic				
					squares		square				
						T	ERM II				
4	1	NUMERACY	Fraction	Addition	- With same	- Do	Adds fractions with	- Effective	- Do	- Do	Fountain 56-57
1											
					denominators		same and different	communicati			Understanding
ı					- Different		same and different denominators	on			
ı					- Different denominators			on - Problem			Understanding
I				Cubination	Different denominatorsMixed numbers	Do	denominators	on - Problem solving	Do	Do	Understanding mtc 85
<u> </u>	2			Subtraction	Different denominators Mixed numbers With same and	- Do	denominators Subtracts fractions	on - Problem	- Do	- Do	Understanding
	2			Subtraction	Different denominators Mixed numbers With same and different	- Do	denominators	on - Problem solving	- Do	- Do	Understanding mtc 85
	2			Subtraction	Different denominators Mixed numbers With same and different denominators	- Do	denominators Subtracts fractions	on - Problem solving	- Do	- Do	Understanding mtc 85
-	2			Subtraction Addition and	Different denominators Mixed numbers With same and different	- Do	denominators Subtracts fractions	on - Problem solving	- Do	- Do	Understanding mtc 85
					Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and		Subtracts fractions correctly Finds LCD Adds and subtracts	on - Problem solving - Do			Understanding mtc 85 Fountain 58-60
	3			Addition and subtraction	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction	- Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions	on - Problem solving - Do	- Do	- Do	Understanding mtc 85 Fountain 58-60 Fountain 59
				Addition and	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation		Subtracts fractions correctly Finds LCD Adds and subtracts fractions Uses BODMAS to	on - Problem solving - Do			Understanding mtc 85 Fountain 58-60
	3			Addition and subtraction	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation correctly	- Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions	on - Problem solving - Do	- Do	- Do	Understanding mtc 85 Fountain 58-60 Fountain 59
	3			Addition and subtraction	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation correctly Working out using	- Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions Uses BODMAS to	on - Problem solving - Do	- Do	- Do	Understanding mtc 85 Fountain 58-60 Fountain 59
	3 4			Addition and subtraction BODMAS	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation correctly Working out using MODMAS	- Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions Uses BODMAS to work out fractions	on - Problem solving - Do - Do	- Do	- Do	Understanding mtc 85 Fountain 58-60 Fountain 59 Do
	3			Addition and subtraction	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation correctly Working out using MODMAS Whole numbers by	- Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions Uses BODMAS to work out fractions Multiplies fraction	on - Problem solving - Do	- Do	- Do	Understanding mtc 85 Fountain 58-60 Fountain 59
	3 4			Addition and subtraction BODMAS	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation correctly Working out using MODMAS	- Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions Uses BODMAS to work out fractions	on - Problem solving - Do - Do	- Do	- Do	Understanding mtc 85 Fountain 58-60 Fountain 59 Do
	3			Addition and subtraction BODMAS	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation correctly Working out using MODMAS Whole numbers by fraction and vice versa	- Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions Uses BODMAS to work out fractions Multiplies fraction	on - Problem solving - Do - Do	- Do	- Do	Understanding mtc 85 Fountain 58-60 Fountain 59 Do
	3			Addition and subtraction BODMAS	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation correctly Working out using MODMAS Whole numbers by fraction and vice	- Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions Uses BODMAS to work out fractions Multiplies fraction correctly	on - Problem solving - Do - Do	- Do	- Do	Understanding mtc 85 Fountain 58-60 Fountain 59 Do
	3 4 5			Addition and subtraction BODMAS Multiplication	Different denominators Mixed numbers With same and different denominators Mixed numbers Finding LCD Adding and subtracting fraction Interpreting operation correctly Working out using MODMAS Whole numbers by fraction and vice versa Fraction by fraction	- Do - Do	Subtracts fractions correctly Finds LCD Adds and subtracts fractions Uses BODMAS to work out fractions Multiplies fraction	on - Problem solving - Do - Do - Do - Do	- Do - Do	- Do - Do	Fountain 59 Do Fountain 60-61

	7			- Fraction by whole numbers and vice versa - Fraction by fraction - Mixed by mixed fraction	- Do	Divides fractions using LCM and reciprocal	- Do	- Do	- Do	New mk 49-50
	8		Mixed operations	- Applying BODMAS - Simplifying fractions	- Do	Uses BODMAS and simplifies fraction correctly	- Do	- Do	- Do	Fountain 62-64
2	1		Decimals	Adding decimals Adding and subtracting decimals	- Do	Adds and subtracts decimals correctly	Do	- Do	- Do	Old mk 14
	2			BODMAS on decimals Adding and subtracting	-	Do		-	-	
	3		Multiplication	Decimal by whole numbers and vice versa Decimal by decimal	- Do	Multiplies writes decimals correctly	Do	- Do	- Do	O;dmk 116-118
	4		Division	Changing to common fraction Finding reciprocal Dividing decimals Simplifying	- Do	Changes Simplifies Decimals	Do	- Do	- Do	Fountain 72
	5		Operation on decimals	Changing to common fraction Introducing brackets Adding or subtracting Simplifying decimals	- Do	Workouts decimals with mixed operations	Do	- Do	- Do	New mk 61-65
	6		Word problem	Interpreting word problems Multiplying and dividing decimals	- Do	Interprets and works out word problems	Do	- Do	- Do	Fountain 73-74
	7	Ratios and proportions	Ratios	Forming ratios Expressing ratios as fractions Fractions as ratios	- Do	Forms ratios correctly	Do	- Do	- Do	Ne mk 66-67
	8			Quantities as ratios Ratios as fraction and vice versa	- Do	Writes ratios correctly	Do	- Do	- Do	Fountain 77-78
3	1		Sharing in ratios	Finding total parts Finding shares	- Do	Finds shares of different parts	Do	- Do	- Dod	Fountain 80-81
	2		Finding shared quantity	- Finding total share - Finding equivalent of shares - Finding the shared quantity	- Do	Fins the quantity shared	Do	- Do	- Do	Old mk 133-135

	3	Increasing and decreasing quantities	Finding fraction of increase and decrease Finding quantity of decrease and increase	- Do	Increases and decrease quantities correctly	Do	- Do	- Do	Old mk 12-130
	4	Ratio of increase and decrease	Expressing quantities as fraction Simplifying fractions Writing ratios in simplest form	- Do	Writes quantities as ratios in simplest form	Do	- Do	- Do	Fountain 79-80
	5	Application of ratios	Applying ratios in solving daily life situations	- Do	Shares quantities using the given ratios	Do	- Do	- Do	Fountain 82-83
	6	Proportions	Direct proportion Constant proportion	- Do	Applies direction proportion and constant proportion	Do	- Do	- Do	Fountain 82-83
	7		- Indirect and inverse proportion	- Do	Interprets and applies indirect proportion	Do	- Do	- Do	Old mk 71
	8	Percentages	Meaning of %ages%age as fractionFractions as %ages	- Do	Changes %ages to fractions and vice versa	Do	- Do	- Do	Understanding mtc 113
4	1	Decimal as %ages	Decimals as %ages %ages as decimals Ratios as fractions	- Do	Converts decimals to %ages Converts ratios as fraction	Do	- Do	- Do	Do
	2	Parts of %ages	Finding partsForming equationsSolving equations	- Do	Finds, forms and solves equations	Do	- Do	- Do	Understanding mtc 115-116
	3	Quantities as %ages	Finding quantities as %age Finding %ages as quantities involving conversion	- Do	Finds equivalent to %age Converts units	Do	- Do	- Do	Old mk 145
	4	Quantities as %age of others	Changing to other units Finding the %age equivalent	- Do	Changes units and finds %ages	Do	- Do	- Do	New mk 75-77
	5	Sharing in %ages	Changing %ages to fraction Multiplying %age by quantity	- Do	Changes %age to fraction Shares quantities	Do	- Do	- Do	Old mk 150
	6	Algebra on %age	Forming equation Changing %age to fraction Finding the number shared	- Do	Forms and solves equations	Do	- Do	- Do	old mk 152-153

	7		1	%age increase	- Increasing	- Do	Increase	Do	- Do	- Do	Fountain 85
	1			and decrease	Decreasing and finding discount Using %ages Finding quantity of decrease and increase		S and decreases quantity correctly				
	8			Finding %age decrease and increase	Finding quantity of increase and decrease Finding %age increase and decrease	- Do	Finds %age increase and decrease	Do	- Do	- Do	Fountain 86-87
5	1			%age profit and loss	Finding profit Finding loss Calculating %age profit and loss	- Do	Finds profit , loss and their %ages	Do	- Do	- Do	Do
	2			Simple interest	Identifying principal rate and time Finding simple interest Finding amount	- Do	Identifies and calculates simple interest	Do	- Do	- Do	Fountain 88 New mk 83
	3	Interpretation of graphs and data handling	Data handling	Collecting and organization data	Collecting and recording data Grouping data Tabulating data Drawing a bar graph	- Do	Collects , records, tabulate and draws a bar graph	- Critical thinking - Effective communica tion - Cooperation - Problem solving	- Do	- Do	New mk 85-86 Fountain 92
	4			Line graphs	Drawing line graphs Interpreting line graphs Finding scale	- Do	Interprets , draws, and finds scale	Do	- Do	- Do	Fountain 102 Old mk 167-168
	5			Mode, median, mean, range	Finding the mode, median, range and mean	- Do	Finds mode, median, range and mean	Do	- Do	- Do	Do
	6			Grouped data	Drawing frequency table Interpreting grouped data Finding mean, mode, median using grouped data	- Do	Draws interprets frequency tables	Do	- Do	- Do	Tr's collection Old mk 172-173
	7			Application of mean	Forms equations Collects like terms Finds unknown using mean	- Do	Forms and solves equations using mean	Do	- Do	- Dod	Do

	8			Inverse problem on average Finding totals	- Do	Finds total using average	Do	- Do	- Do	Do
6	1		Pie charts	Drawing pie charts Interpreting and completing sectors	- Do	Draws Interprets and completes pie chars correctly	Do	- Do	- Do	New mk 94-97
	2			Drawing pie charts Interpreting pie charts with %ages Finding unknown sectors	- Do	Draws , finds unknown sector on a pie chart	Do	- Do	- Do	Fountain 93-97
	3			Finding unknown values on the pie chart Form an equation using the equivalent values	- Do	Identifies equivalence and completes the pie chart	Do	- Do	- Do	Tr's collection
	4		Drawing pie chart	Changing fractions to degrees Changing %ages to degrees Drawing accurate pie chart	- Do	Draws pie chart using degrees	Do	- Do	- Do	New mk 99
	5		More about pie charts	Finding total quantity Changing quantities to degrees Drawing accurate pie chart	- Do	Do	Do	- Do	- Do	Old mk 184-188
	6		Coordinate graph	- Plotting - Joining - Naming shape - Finding area - And perimeter	- Do	Plots, names, shapes, and finds area and perimeter	Do	- Do	- Do	Do
	7		Money	Identifying different currencies Finding number of notes Finding the amount equivalent to the denomination	- Do	Identifying currencies Finds number of bank notes	Do	- Do	- Do	Doldmk 217- 218
7	3	Distance , time and speed	Local and foreign currencies	Converting local currency to foreign currency Drawing and use of forex rate table	- Do	Converts local currency to foreign currency and vice versa	- Effective communicati on - Interpersonal relationship - Problem solving - Decision	- Do	- Do	Fountain 117 Understanding mtc 180-181

							making			
	2	Time	Conversion of time	12 hr clock to 24 hr clock 24 hr clock to 12 hr clock	- Do	Convers time in 24 hr clock and 12 hr clock	Do	- Do	- Do	Tr's collection
	3		Finding duration	Converting to 24 hr clock Finding duration in hrs and minutes	- Do	Converts to 24 hr clock Finds duration in hrs and minutes	Do	- Do	- Do	Olmk 224-225
	4		Distance	Finding distance with hours, minutes and km/hr on duration	- Do	Finds distance in conjunction with minutes and hours	Do	- Do	- Do	New mk 112
	5		Time	Finding time in hrs using speed and distance	- Do	Finds time using speed and time	Do	- Do	- Do	Understanding mtc 121-128
	6		Speed	Finding speed using time in hours and minute s Fidning speed in km/hrs	- Do	Finds speed using time in minutes and hours	Do	- Do	- Do	New mk 114- 116
	7			Expressing km to m Hours to seconds Finding speed in m/sec	- Do	Converts km/hr to m/sec Finds speed in m/sec	Do	- Do	- Do	Old mk 237-238
	8			Converting m to km Changes sec to hours Converting m/sec to km/hr	- Do	Converts m to km, sec to hrs and m/sec to km/hr	Do	- Do	- Do	Do
8	1		Average speed	Finding total distance covered Finding total time Finding average speed	- Do	Finds distance, time, and average speed	Do	- Do	- Do	Old mk 235 Understanding 190-191
	2		Travel graph	Drawing travel graph Finding scales Completing travel graph Showing movement on the travel graph Finding average speed	- Do	Draws and finds scale Finding average speed	Do	- Do	- Do	New mk 115- 120
					P.6 MTC SCHE	ME TERM III				
1	1	Length, mass and capacity	Conversion of metric units	- Km to m - M to cm - Cm to mm - Km to cm - Dm to cm	- Do	Converts metric unites correctly	Do	- Do	- Do	Old mk 313-315

	2		- M to km - Cm to m - Mm to cm - Cm to km - Cm to dm	- Do	Do	Do	- Do	- Do	Do
	3	Perimeter	Finding missing sidesIdentifying shapesCalculating perimeter	- Do	Identifies shapes and finds perimeter	Do	- Do	- Do	Old mk 320
	4	Area	Identifies shapes Finding area of a square Finding sides of a square using area Using area of a square to find perimeter	- Do	Finds area and perimeter of a square	Do	- Do	- Do	New mk 125
	5		- Finding area of a rectangle - Finding length and width using area - Using perimeter to find area	- Do	Finds area of a rectangle side	Do	- Do	- Do	New mk 122- 123
	6	Area and perimeter	Identifying equal signs Finding unknown Finding length and width Calculating perimeter and area of a rectangle and square	- Do	Forms and finds unkwnon length Finds perimeter and area	Do	- Do	- Do	New mk 123- 125 Old mk 334
	7	Difference of area	Finding are of inner and outer shapes Finding shaded or unshaded regions	- Do	Finds area of inner and outer shapes Finds shaded and unshaded regions	Do	- Do	- Do	Old mk 336-337
	8	Triangles	Finding area of a triangleFinding base or height of a triangle	- Do	Finds area, base or height	Do	- Do	- Do	Understanding mtc 267-263 Fountain 135- 136
2	1	Comparing area	 Identifying base and height of triangles Finding base or height using area 	- Do	Identifies base and heights of triangles, Finds base or height	Do	- Do	- Do	Olfmk 342
	2	Combined figures	Finding area of separate figuresCalculating area of combined figures	- Do	Finds area of combined figures correctly	Do	- Do	- Do	Understanding mtc 258 Old mk 343

	3		Trapezium	- Types of trapezium	- Do	Names types of	Do	- Do	- Do	New mk 128
				- Properties		trapezium				Old mk 344-346
				- Finding sides of a		Finds area and				
				trapezium		types of trapezium				
				- Finding sides of a						
	4		Parallelogram	trapezium using area - Finding area	- Do	Finds area and	Do	- Do	- Do	New mk 129
	4		Farallelograffi	- Finding base and	- 00	sides of a	D0	- 00	- 50	Old mk 347
				height using area		parallelogram				Old Tilk 947
	5		Rhombus and	- Stating properties	- Do	States properties	Do	- Do	- Do	New mk 130
			kite	- Finding area of a kite		and calculates				
				- Calculating		area				
	6	Circle	Circumference	 Finding radius and 	- Do	Names parts of a	Do	- Do	- Do	New mk 133
				diameter		circle and finds				
				- Identifying pie		circumference				
				- Calculating						
	7		Perimeter and	circumference - Identifying radius and	- Do	Identifies radius	Do	- Do	- Do	Do
	'		circumference	diameter	- 100	and diameter	100	- 50	- 50	D0
			of sectors	- Finding		Finds				
			0.000.0	circumference		circumference and				
				- Calculating perimeter		perimeter of sector				
				0.1		S				
	8		Area	 Identifying radius 	- Do	Identifies radius	Do	- Do	- Do	DI
				 Finding area using 		and finds area of				
				22/7 or 3.14		circles and some				
				Finding area of some sectors		sectors				
_	1		TOTAL	- Identifying prisms	- Do	Identifies s prisms	Do	- Do	- Do	Old mk 348-351
3			surface area	- Calculating TSA	50	and finds the total	100	50	50	Old 111K 040 001
				3		surface area				
	2		Sides of a	- Forming equations	- Do	Uses TSA to find	Do	- Do	- Do	New mk 137
			cube and	using TSA		sides and volume				
			cuboid	 Applying TSA to find 		of cubes and				
	ļ		0.11.1	sides and volume	<u> </u>	cuboid	<u> </u>			011 1 050 000
	3		Cylinder	- Naming parts	- Do	Names, identifies	Do	- Do	- Do	Old mk 356-360
				Identifying radiusFinding volume using		and finds volume				
				base area and height						
	4		Capacity	- Finding volume	- Do	Finds volume and	Do	- Do	- Do	Fountain 139-
	-r		Jupuoity	- Finding capacity	50	capacity			50	141
				using volume			1			
	5		Application of	- Changing capacity to	- Do	Changes capacity	Do	- Do	- Do	Old mk 359-360
			volume and	volume		to volume				
			capacity	- Suing volume to finds		Uses volume to				
				sides		find sides				
				 Calculating capacity 		Calculates capacity				

	6			Capacity	- Litres to ml - L to cm ³ - Ml to l - Cm ³ to l	- Do	Changes litres to milliliters Litres to cm³ and vice versa	Do	- Do	- Do	Old mk 360-364
	7	Lines, angles and geometrical figures	Geometry	Shapes and lines	Types of lines Drawing and measuring lines segments Drawing parallel lines Constructing perpendicular lines	- Do	Draws , measures lines Constructs lines	Do	- Do	- Do	Fountain 152- 153
	8			Angles	Drawing and forming angles Measuring angles using different scales on a protractor.	- Do	Draws, forms and measures angels	Do	- Do	- Do	Fountain 147- 151new mk 147-149
4	1			Bisection of angles	Bisecting lines at a point Dropping bisectors Bisecting given angles	- Do	Bisects and draw lines	Do	- Do	- Do	Fountain 147- 151
	2			Constructing angles	Drawing lines Constructing ARCs Showing angles Constructing angles of 30°, 45°, 60°, 90°	- Do	Draws, constructs angles	Do	- Do	- Do	New mk 147- 149 Old mk 288-291
	3			Constructing polygons	Types of triangles Drawing sketch Drawing lines Measuring lengths Constructing triangles with SSS	- Do	Draws, sketch lines and triangles	Do	- Do	- Do	Understanding mtc 237
	4			Constructing triangles	Drawing sketch Drawing and measuring sides Constructing angles Constructing a triangle with SAS,SSA and ASS	- Do	Draws, measures lines and angles	Do	- Do	- Do	Understanding mtc 230-231
	5				Drawing sketch Measuring one side Constructing two angels Constructing a triangle with AAS	- Do	Measures and constructs triangles	Do	- Do	- Do	Do
	6			Constructing quadrilaterals	Square, rectangleState propertiesFind the diagonals	- Do	Constructs a square, rectangle and state the properties	Do	- Do	- Do	Tr's collection

	7		Hexagon , octagon and pentagon Finding centre angel Finding perimeter	- Do	Constructs, hexagon, pentagon, and octagon correctly	D	Do	- Do	Fountain 155- 156 New mk 165
	8	Properties of polygons - - - -	Equilateral triangles Isosceles triangles Scalene triangles Right angled triangles Square, parallelogram Trapezium and kite	- Do	States properties of polygons	Do	Do	- Do	Tr's collection
5	1	Pythagoras - theorem -	Proving Pythagoras theorem Finding hypotones height and base using Pythagoras theorem	- Do	Applies piethogorus theorem correctly	Do	Do	- Do	Fountain 157 Old mk 299-300
	2	pythagorus theorem - :	Finding equal sides of isosceles triangle Substituting Fidning the base , height and hypotunes Calculating area and perimeter	- D	Finds sides of an isosceles Finds its base , height and hypotunes	Do	Do	- Do	Tr's collection
	3	Types of angles	Right angels Acute , reflex and centre Supplementary and complementary angles	- Do	Identifies and finds complements and supplements of angles	Do	D	- Do	Fountain 146
	4	angels -	Unknown supplementary angles Forming equations Angels in the triangle Finding supplements	- Do	Finds supplements of angles	Do	Do	- Do	New mk 144
	5	parallel lines i	Drawing parallel lines in sketch form Drawing transversal line Co-interior angels Co-exterior angels	- Do	Draws parallel lines, Identifies co- interior angels and co exterior angels	Do	Do	- Do	Old mk 267-273
	6	- 1	Alternate interior angles Alternate exterior angles Corresponding angles Vertically opposite	- Do	Identifies the angle properties on parallel lines	Do	Do	- Do	Tr's collection

				angles						
	7		Angle properties	Equilateral triangle Isosceles triangle The sum of two interior angles is equal to its opposite exterior angels	- Do	Applies the angle properties on triangles	Do	Do	- Do	Tr's collection
6	1	Integers	Number line	Additive inverse Naming arrows Drawing arrow Drawing a number line Finding inverse	- Do	Draw, names and finds additive inverse	Do	Do	- Do	Old mk 197-198
	2		Ordering integers	Comparing integers Ascending order Descending order	- Do	Compares and arranges integers	Do	Do	- Do	New mk 168- 167
	3		Addition	Positive to a positive Positive to a negative Negative to a negative Negative to a positive Using a number line	- Do	Adds integers with or without a number line	Do	Do	- Do	Tr' collection
	4		Subtraction	Positive from a positive Positive from a negative Negative from a negative Negative from a positive Using a number line	- Do	Subtracts integers with or without number line	Do	Do	- Do	Tr's collection
	5		Multiplication	- Finding groups - Showing groups on a number line - Multiplying integers with or without a number line	- Do	Multiplies integers correctly	Do	Do	- Do	Old mk 205
	6		Solution sets	Drawing a number line Interpreting set of integers Showing set of integers on a number line Finding solution sets	- Do	Finds the solution set	Do	Do	- Do	Old mk 207-210
	7		Inequalities	Solving inequalities Showing on a number line Finding the solution	- Do	Solves and finds solution sets correctly	Do	Do	- Do	Do

Adding subtracting multiplying dividing and user brackets Do Do Do Do Do Do Do D						set						
expression - Substitute and finds values 183	7	1	ALGEBRA	Algebra		 Adding , subtracting , multiplying , dividing and use f brackets 		operations to write algebraic	Do	Do	- Do	Fountain 187 Old mk 374-375
- Simplifying like terms - Applying perimeter - Finding values of unknown - Simplifying - Simplifying - Finding values of unknown - Simplifying - Finding values of unknown - Simplifying - Finding values of unknown - Simplifying - Si		2			Substitution	expression - Substituting		substitute and finds values	Do	D	- Do	New mk 180- 183
Brackets Substituting Substitutes and simplifies		3			Like terms	Simplifying like terms Applying perimeter	- Do	simplifies like	Do	Do	- Do	
equation Subtracting and multiplying equations equations Solving equations Solving equations Solving equations Forming equations Collection like terms Simplifying like terms Finding unknown Solving equation Solving equation Solving equation Fractional equation Finding LCD Solving equation Finding unknown Find		4				Substituting Simplifying Finding values of unknown		Substitutes and simplifies				
equation by dividing - Collection like terms - Simplifying like terms - Finding unknown - Solving equation - Fractional equation - Fractional equation - Finding LCD - Solving equation - Finding unknown - Do - Do - Do - Do - Do - Tr' collection - Finding unknown - Do - Tr' collection		5				Subtracting and multiplying		equations \solving equations			- Do	Ldmk 380-381
Fractional equation Fractional equation Finding LCD Finding LCD Finding unknown Application of algebra Equations with brackets Application of algebra Application of algebra Finding unknown Collecting like terms equations And solves equations Applies area and perimeter using algebra Applies area and perimeter using algebra Applies area and perimeter using algebra Removes, collects and solves equation Finding unknown Equations with brackets Application of algebra Application of algebra Application of algebra Fractional equation Finding unknown Do Do Do Do Do Do New mk 186 Removes, collects and solves equation Forms, solves, and finds area of different polygons Forming equation Forming equation Forming equation Forming equation Forming equation Finding sides area		6			equation by	Collection like terms Simplifying like terms Finding unknown	- Do	simplifies and	Do	Do	- Do	New mk 184- 185
8 1 Equations with brackets - Collecting like terms - Solving - Finding unknown 2 Application of algebra Application of algebra Square, rectangle, and triangle - Using perimeter of a square, rectangle and triangle - Using perimeter using algebra Perimeter using algebra Removes, collects and solves equation Forms, solves, and finds area of different polygons Forms, solves, and finds area of different polygons Solving equation - Finding sides area		7				Finding LCD Solving equation	- Do	And solves	Do	Do	- Do	New mk 186
Removes , collects and solves equation Equations with brackets Collecting like terms - Solving - Finding unknown Application of algebra Application of solving equation - Forming equation - Solving equation - Finding sides area Equations with brackets Collecting like terms - Do Removes , collects and solves equation Forms, solves, and finds area of different polygons Forms, solves, and finds area of different polygons		8				square , rectangle, and triangle - Using perimeter of a square , rectangle	- Do	perimeter using	Do	Do	- Do	New mk 188- 189
algebra of polygon finds area of different polygons - Solving equation - Finding sides area	8	1				Collecting like terms Solving	- Do	and solves	Do	Do	- Do	New mk 199 Old mk 395-396
		2				of polygon - Forming equation - Solving equation - Finding sides area and perimeter of	- Do	finds area of	Do	Do	- Do	Tr' collection
Revision		1	<u> </u>			polygon	<u>l</u>	Povision				