**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 | **SETS** | **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 communication
* Interpersonal relationship
 | * Real objects
* Flash cards
* Charts
* Containers
* Counters
* Stones
* Sticks
* Abacus
* Papers
 | * creative thinking
* Effective communication
* 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 |  |  | * 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
* Finds number of members on the venn diagram
 | * Think
* Pair
* Share
 | * Clock faces
* Mtc sets
* Learners
* Manila cards
* Boxes
* C.compases
* Bottle tops
 |  | Mk old edition 22-25 |  |
|  | 7 |  |  | * Interpreting word problems
* Representing information on the venn diagram
* Solving for unknown
 | * Interprets , represents and solves for unknown on the venn diagram
 |  |  |  |  | Fountain 10-13 |  |
|  | 8 |  | Probability  | * Identifying the sample spaces
* Listing elements
* Finding probability
 | * Spells, reads, Pronounces and uses the words correctly
 | * Lists, finds, identifies, and finds probability
 |  | * Do
 |  | Fountain pg 14-16Mk new edition 10-12  |  |
| **2** | 1 | **NUMERACY** | **Whole numbers**  | Place and values  | * Spells , reads , pronounces and uses the words correctly
 | * Finds the place values and values and uses operations.
 |  |  |  |  | Mk new edition 14-15Fountain 20-23Curriculum pg 152-154 |  |
|  | 2 |  | Expanded form  | * Using values
* Using place values
* Using powers of tens and multiplies of ten
* Finding expanded numerals.
 |  | * Expands numbers using place values , powers of ten
 |  |  |  | Fountain 23-24Mk new edition 16-17 |  |
|  | 3 |  |  | * Scientific notation /standard notation
 |  | * Writes numbers in scientific notation
 |  |  |  |  |  |
|  | 4 |  | Expressing expanded numbers as single numbers  | * Expanded form of values, place values, exponents and multiples of ten
 | * Spells , read, pronounces and uses new words correctly
 | * Multiplies
* Adds
* Arranges values correctly
 | * Do
 | * Number cards
* Real objects
 | * Do
 | Mk new edition 18-19Mk old 38-39 |  |
|  | 5 |  | Writing numbers in words  | * Finds place values
* \writes numerals in words upto million
 | * Do
 | * Finds place values
* Writes in words
 | * Do
 | * Do
 | * Do
 | Do |  |
|  | 6 |  | Words in figures  | * Identifies place values
* Writes number words in figures
* Arranges and adds values correctly
 | * Do
 | * Identifies place values
* Finds the number
* Arranges values
 | * Do
 | * Do
 | * Do
 | Mk old edition 47-48 |  |
|  | 7 |  | Rounding off  | * Identifying required place values
* Finding the nearest place values
* Rounding off whole numbers
 | * Do
 | Identifies nearest place values and requires place values Rounds off whole numbers  | * Do
 | * Do
 | * Do
 | Mk old edition 48Understanding 33-35  |  |
|  | 8 |  | Decimal numbers  | * Place values
* Values
 | * Spells, reads, pronounces, and uses new words correctly
 | Finds place valuesAnd 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
* Changing to decimal base
 | * Do
 | Identifies place values and changes to base ten  | * Do
 | * Do
 | * Do
 | Tr’s collection  |  |
| **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 |  | Finite 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 system
* Dividing
* Finding 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** |  | Addition of whole numbers  | * Identifying place values
* Arranging
* Adding
 | * Spells, reads , pronounces and uses new words correctly
 | Identifies place values Arranges and adds whole numbers  | * Cooperation
* Effective communication
* Creative thinking
* Critical thinking
* Problem solving
 | * Do
 | * Do
 | Understanding mtc 40-42 |  |
|  | 8 |  | Subtraction  | * Identifying place values
* Arranging
* Subtracting
 | * Do
 | Identifies place values Arranges and subtracts whole numbers  | * Do
 | * Do
 | * Do
 | Fountain 32-35 |  |
| **5** | 1 |  | Multiplication  | * Arranging according to place values
* Regrouping
* Multiplying
 | * Do
 | Arranges Regroups Multiplies  | * Do
 | * Do
 | * Do
 | New mk edition 27Fountain 33-34 |  |
|  | 2 |  | Division  | * Using long division
* Regrouping
* Multiplying
* Subtracting
* Dividing
 | * Do
 | Divides  | * Do
 | * Do
 | * Do
 | New mk 29-30 |  |
|  | 3 |  | Word problem  | * Interpreting statement
* Writing mathematical statements
* Dividing quantities
 | * Do
 | Interprets statements Writes mathematical statements Divides quantities  | * D
 | * Do
 | * Do
 | Mk new 2-30Fountain 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 34-36Fountain 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 43-48Mk 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
* Factor tree
* Ladder
 | * Do
 | Uses factor tree or ladder to prime factoriseWrites prime factors accordingly  | * Do
 | * Do
 | * Do
 | Mk old 86 |  |
|  | 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 LCMPrime 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 factoriseMultiplies 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 factoisesWrites prime factors In multiplication form Finds square roots  | * Do
 | * Do
 | * Do
 | New mk 39Tr’s collection  |  |
|  | 6 |  |  | Square roots of fraction  | * Finding prime factors
* Changing decimal to common fraction
* Mixed to common fraction
* Finds square roots
 | * Do
 | Do | * Do
 | * Do
 | * Do
 | Tr’s collection  |  |
|  | 7 |  |  | Application of square roots  | * Forming equations
* Prime factorizing
* Finding square roots
 | * Do
 | Forms equationPrime factoriseUses square roots  | * Do
 | * D
 | * Do
 | Tr’s collection  |  |
|  | 8 |  |  | Cube and cube roots  | * Finding cubes
* Forming equations
* Finding cube roots
 | * Do
 | Finds cubes and cube roots  | * Do
 | * Do
 | * Dod
 | Fountain 49 |  |
| **8** | 1 |  |  | Sequences  | * Identifying types of number
* Finding number patterns
* Completing sequence
 | * Do
 | Identifies types of numbers Finds pattern numbers Completes the sequences  | * Do
 | * Do
 | * Do
 | Do |  |
|  | 2 |  |  | Puzzle and magic square  | * Forms puzzles
* Finding magic sum
* Completing magic squares
 | * Do
 | Forms magic squareCompletes magic square  | * Do
 | * Do
 | * Do
 | Understanding mtc 74 |  |
|  | **TERM II**  |
| **1** | 1 | **NUMERACY**  | **Fraction**  | Addition  | * With same denominators
* Different denominators
* Mixed numbers
 | * Do
 | Adds fractions with same and different denominators  | * Effective communication
* Problem solving
 | * Do
 | * Do
 | Fountain 56-57Understanding mtc 85 |  |
|  | 2 |  |  | Subtraction  | * With same and different denominators
* Mixed numbers
 | * Do
 | Subtracts fractions correctly  | * Do
 | * Do
 | * Do
 | Fountain 58-60 |  |
|  | 3 |  |  | Addition and subtraction  | * Finding LCD
* Adding and subtracting fraction
 | * Do
 | Finds LCD Adds and subtracts fractions  | * Do
 | * Do
 | * Do
 | Fountain 59 |  |
|  | 4 |  |  | BODMAS | * Interpreting operation correctly
* Working out using MODMAS
 | * Do
 | Uses BODMAS to work out fractions  | * Do
 | * Do
 | * Do
 | Do |  |
|  | 5 |  |  | Multiplication  | * Whole numbers by fraction and vice versa
* Fraction by fraction
 | * Do
 | Multiplies fraction correctly  | * Do
 | * Do
 | * Do
 | Fountain 60-61 |  |
|  | 6 |  |  | Division  | * Using LCM
* Using reciprocal
* Dividing fraction
 | * Do
 | Finds reciprocals and divides fractions  | * D
 | * Do
 | * Do
 | New mk 46-47 |  |
|  | 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 fraction
* Fractions 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 parts
* Forming equations
* Solving 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 |  |  | %age increase and decrease  | * Increasing
* Decreasing and finding discount
* Using %ages
* Finding quantity of decrease and increase
 | * Do
 | Increase S and decreases quantity correctly  | Do | * Do
 | * Do
 | Fountain 85 |  |
|  | 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 88New 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 communication
* Cooperation
* Problem solving
 | * Do
 | * Do
 | New mk 85-86Fountain 92 |  |
|  | 4 |  |  | Line graphs  | * Drawing line graphs
* Interpreting line graphs
* Finding scale
 | * Do
 | Interprets , draws, and finds scale  | Do | * Do
 | * Do
 | Fountain 102Old 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 communication
* Interpersonal relationship
* Problem solving
* Decision making
 | * Do
 | * Do
 | Fountain 117Understanding mtc 180-181 |  |
|  | 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 235Understanding 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 SCHEME 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 sides
* Identifying shapes
* Calculating 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 123-125Old 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 triangle
* Finding base or height of a triangle
 | * Do
 | Finds area, base or height  | Do | * Do
 | * Do
 | Understanding mtc 267-263Fountain 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 figures
* Calculating area of combined figures
 | * Do
 | Finds area of combined figures correctly  | Do | * Do
 | * Do
 | Understanding mtc 258Old mk 343 |  |
|  | 3 |  |  | Trapezium  | * Types of trapezium
* Properties
* Finding sides of a trapezium
* Finding sides of a trapezium using area
 | * Do
 | Names types of trapezium Finds area and types of trapezium  | Do | * Do
 | * Do
 | New mk 128Old mk 344-346 |  |
|  | 4 |  |  | Parallelogram  | * Finding area
* Finding base and height using area
 | * Do
 | Finds area and sides of a parallelogram  | Do | * Do
 | * Do
 | New mk 129Old mk 347 |  |
|  | 5 |  |  | Rhombus and kite  | * Stating properties
* Finding area of a kite
* Calculating
 | * Do
 | States properties and calculates area  | Do | * Do
 | * Do
 | New mk 130 |  |
|  | 6 |  | **Circle**  | Circumference  | * Finding radius and diameter
* Identifying pie
* Calculating circumference
 | * Do
 | Names parts of a circle and finds circumference  | Do | * Do
 | * Do
 | New mk 133 |  |
|  | 7 |  |  | Perimeter and circumference of sectors  | * Identifying radius and diameter
* Finding circumference
* Calculating perimeter
 | * Do
 | Identifies radius and diameter Finds circumference and perimeter of sector s  | Do | * Do
 | * Do
 | Do |  |
|  | 8 |  |  | Area  | * Identifying radius
* Finding area using 22/7 or 3.14
* Finding area of some sectors
 | * Do
 |  Identifies radius and finds area of circles and some sectors  | Do | * Do
 | * Do
 | Dl |  |
| **3** | 1 |  |  | TOTAL surface area  | * Identifying prisms
* Calculating TSA
 | * Do
 | Identifies s prisms and finds the total surface area  | Do | * Do
 | * Do
 | Old mk 348-351 |  |
|  | 2 |  |  | Sides of a cube and cuboid  | * Forming equations using TSA
* Applying TSA to find sides and volume
 | * Do
 | Uses TSA to find sides and volume of cubes and cuboid  | Do | * Do
 | * Do
 | New mk 137 |  |
|  | 3 |  |  | Cylinder  | * Naming parts
* Identifying radius
* Finding volume using base area and height
 | * Do
 | Names, identifies and finds volume  | Do | * Do
 | * Do
 | Old mk 356-360 |  |
|  | 4 |  |  | Capacity  | * Finding volume
* Finding capacity using volume
 | * Do
 | Finds volume and capacity  | Do | * Do
 | * Do
 | Fountain 139-141 |  |
|  | 5 |  |  | Application of volume and capacity  | * Changing capacity to volume
* Suing volume to finds sides
* Calculating capacity
 | * Do
 | Changes capacity to volume Uses volume to find sides Calculates capacity  | Do | * Do
 | * Do
 | Old mk 359-360 |  |
|  | 6 |  |  | Capacity  | * Litres to ml
* L to cm3
* Ml to l
* Cm3 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 300, 450, 600, 900
 | * Do
 | Draws, constructs angles  | Do | * Do
 | * Do
 | New mk 147-149Old 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, rectangle
* State properties
* Find 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 155-156New 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 157Old mk 299-300 |  |
|  | 2 |  |  | Application of 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 |  |  | Supplementary angels  | * Unknown supplementary angles
* Forming equations
* Angels in the triangle
* Finding supplements
 | * Do
 | Finds supplements of angles  | Do | Do | * Do
 | New mk 144 |  |
|  | 5 |  |  | Angels on parallel lines  | * 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 |  |  |  | * Alternate interior angles
* Alternate exterior angles
* Corresponding angles
* Vertically opposite angles
 | * Do
 | Identifies the angle properties on parallel lines | Do | Do | * Do
 | Tr’s collection  |  |
|  | 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 set
 | * Do
 | Solves and finds solution sets correctly  | Do | Do | * Do
 | Do |  |
| **7** | 1 | **ALGEBRA**  | **Algebra**  | Algebraic expression  | * Writing phrase
* Adding , subtracting , multiplying , dividing and use f brackets
 | * Do
 | Uses different operations to write algebraic expression  | Do | Do | * Do
 | Fountain 187 Old mk 374-375 |  |
|  | 2 |  |  | Substitution  | * Expanding algebraic expression
* Substituting
* Finding values
 | * Do
 | Expands, substitute and finds values  | Do | D | * Do
 | New mk 180-183 |  |
|  | 3 |  |  | Like terms  | * Collecting like terms
* Simplifying like terms
* Applying perimeter
* Finding perimeter
 | * Do
 | Collects and simplifies like terms  | Do | Do | * Do
 | Do |  |
|  | 4 |  |  | Removing brackets  | * Multiplying
* Substituting
* Simplifying
* Finding values of unknown
 | * Do
 | Removes brackets Substitutes and simplifies  | Do | Do | * Do
 | Fountain 188-189 |  |
|  | 5 |  |  | Forming equation | * By adding
* Subtracting and multiplying
 | * Do
 | Forms different equations \solving equations  | Do | Do | * Do
 | Ldmk 380-381 |  |
|  | 6 |  |  | Solving equation by dividing  | * Forming equations
* Collection like terms
* Simplifying like terms
* Finding unknown
* Solving equation
 | * Do
 | Forms, collects, simplifies and solves equation  | Do | Do | * Do
 | New mk 184-185 |  |
|  | 7 |  |  | Fractional equation  | * Collecting like terms
* Finding LCD
* Solving equation
* Finding unknown
 | * Do
 | Collects like terms And solves equations  | Do | Do | * Do
 | New mk 186 |  |
|  | 8 |  |  | Application of algebra  | * Using area of a square , rectangle, and triangle
* Using perimeter of a square , rectangle and triangle
 | * Do
 | Applies area and perimeter using algebra  | Do | Do | * Do
 | New mk 188-189 |  |
| **8** | 1 |  |  | Equations with brackets  | * Removing brackets
* Collecting like terms
* Solving
* Finding unknown
 | * Do
 | Removes , collects and solves equation  | Do | Do | * Do
 | New mk 199Old mk 395-396 |  |
|  | 2 |  |  | Application of algebra  | * Identifying properties of polygon
* Forming equation
* Solving equation
* Finding sides area and perimeter of polygon
 | * Do
 | Forms, solves, and finds area of different polygons  | Do | Do | * Do
 | Tr’ collection  |  |
|  | **Revision** |