**SCHEME OF WORK - TERM ONE**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **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 14-16  Mk 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 14-15  Fountain 20-23  Curriculum 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 23-24  Mk 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 18-19  Mk 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 48  Understanding 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 * 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 27  Fountain 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 2-30  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 * Factor tree * Ladder | * Do | Uses factor tree or ladder to prime factorise  Writes 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 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 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 equation  Prime factorise  Uses 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 square  Completes 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 56-57  Understanding 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 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 communication * 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 communication * Interpersonal relationship * Problem solving * Decision making | * Do | * Do | Fountain 117  Understanding 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 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 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 123-125  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 triangle * Finding 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 figures * Calculating 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 * 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 128  Old 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 129  Old 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 147-149  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, 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 155-156  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 | |  |  | 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 199  Old 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** | | | | | | | | | | | |