

**WEEKLY ASSESSMENT SYLLABUS –
6th November 2023**

Class 5

English language

Writing Skills -

1. Story Writing

Class 6

Mathematics

Number system: Whole numbers

Addition and Subtraction of whole Numbers,

Multiplication and division of whole numbers

BODMAS, Word Problems

Numbers and Patterns – HCF, LCM, patterns, index numbers and index laws.

Integers: positive and negative integers, addition, subtraction, multiplication and division, word problems.

Parts of a Whole: Basic concepts of fractions – Mixed nos., Equivalent fractions, simplifying fractions

Four operations on fractions and Decimals

Conversion of fractions to decimals, to percentage and vice-versa,

Fractions of a quantity

Comparing – fractions, percentage and decimals, Mixed questions on fractions, decimals and percentages

Word problems

Percentage: Expressing a quantity as percentage, Percentage of a quantity, Percentage Increase and decrease

Probability: Chances , Outcomes of experiences

[Coins/Cards/Die]

Ratio and Proportion : Simplifying Ratios, Ratios as fractions ,Division in a given ratios, Unitary Method

Collecting and Displaying Data: Frequency table, Mean/Median/Mode/Range (RawData), Stem and Leaf Diagram, Bar graphs - interpret, Pie Chart – Interpret

Class 7

English language

Writing Skills - M.M. - 25

1. Letter Writing - Persuasive

Class 8 – 2L
SST
History

Unit 19- How and why did the Holocaust happen? (pages 144- 156)

Geography
UNIT-4

China- the emerging nation/Population

1. World Population Growth
2. Reasons for High and Low Birth Rate and Death Rate
3. Demographic Transition Model
4. Population Pyramids
5. Overpopulation, under population and Optimum Population

Class 9 –
Mathematics

• **Numbers**

- ▲ Types of number
- ▲ Powers and roots
- ▲ Fractions, decimals and percentages
- ▲ Ordering
- ▲ The four operations (Use the four operations for calculations with integers, fractions and decimals, including correct ordering of operations and use of brackets)
- ▲ Indices
- ▲ Standard form
- ▲ Estimation
- ▲ Limits of accuracy
- ▲ Ratio and proportion
- ▲ Percentages (Express one quantity as a percentage of another, percentage increase or decrease, simple and compound interest, reverse percentages)
- ▲ Time
- ▲ Currency Conversion
- ▲ Surds

• **Algebra**

- ▲ Algebraic manipulation (Simplification, Expansion, Factorisation excluding completing the square method)
- ▲ Algebraic fractions
- ▲ Linear equations and Simultaneous linear equations
- ▲ Quadratic equations
- ▲ Change the subject of formulas.
- ▲ Sequences
- ▲ Direct and Inverse Variation

- **Coordinate geometry**
 - ▲ Finding the gradient
 - ▲ Length and midpoint of the line segment
 - ▲ Equations of straight line, Parallel lines, Perpendicular lines

- **Graphs**
 - ▲ Drawing Linear and quadratic graphs
 - ▲ Estimate gradients of quadratic graphs by drawing tangents.
 - ▲ Apply differentiation to gradients and stationary points (turning points)

- **Mensuration**
 - ▲ Units of measure and their conversions
 - ▲ Area and perimeter
 - ▲ Circles, arcs and sectors
 - ▲ Surface area and volume
 - ▲ Compound shapes and parts of shapes

- **Trigonometry**
 - ▲ Pythagoras' theorem
 - ▲ Right-angled triangles (sine, cosine and tangent ratios for acute angles, shortest distance to the line)
 - ▲ Trigonometric functions
 - ▲ Non-right-angled triangles (Use the sine and cosine rules,

$$\text{area of triangle} = \frac{1}{2} ab \sin C$$
)
 - ▲ Pythagoras' theorem

Class 10

Additional Mathematics

1. Trigonometry
2. Differentiation (1 and 2 both)
3. Integration
4. Kinematics

Geography

2.3 Coasts

Case Study: The opportunities presented by an area or areas of coastline, the associated hazards and their management.