SYLLABUS (2018–2019)

Class VI

SUBJECT- MATHEMATICS

Syllabus for April to September:

Chapters:

1 Knowing Our Numbers
2Whole Numbers
3 Playing with Numbers
4 Basic Geometrical Ideas
5 Understanding Elementary Shapes
6 Integers
7 Fractions

April:

1st week (2nd to 7th April): Basic Concepts

2nd week (9th to 14th April): Chapter 1 – Knowing Our Numbers

Numbers in our daily life, Hindu Arabic Number System, Comparing and ordering large numbers,

3rd week (16th to 21st April): Building numbers, The Indian System of Numeration.
The International system of numeration, use of numbers in everyday life, Estimation, Estimating sums, Differences, Products, Products and Quotients, Roman Numerals.

4th week (23rd to 30th April): Chapter 2 – Whole Numbers

Natural numbers, Whole numbers, comparing two whole numbers, Representation of whole numbers on number line

May :

1st week (1st to 5th May): operations on whole numbers (Operation of addition and subtraction)
Operations on whole numbers. (Operations of Multiplication and Division)

2nd week(7th to 12th May):Chapter 3 – Playing with Numbers

Simplification of Numerical impressions (Using BODMAS and types of brackets).
Factors, Multiples, Prime and composite numbers

3rd week (14th to 19th May): facts about Prime numbers, composite Numbers, Tests for Divisibility of numbers, HCF (Prime factorization & continued division method)

4th week(21st to 26th May): LCM (By listing multiples, prime factorization), word problems on HCF and LCM,

July:

1st week (2nd to 7th July): Chapter 4 – Basic Geometrical Ideas

Introduction, few facts about Point, line, line segment, ray, plane, open and closed figures, Angles, Types of angles ,Triangles, Types of a triangle.

2nd week (9th to 14th July): Quadrilateral: Sides, Angles and Diagonals of a quadrilateral, Circle, parts of a Circle, Relation between radius and diameter and circumference of a circle.

3rd week (16th to 21st July): Chapter5 – Understanding Elementary Shapes: Comparing and measuring two line segments, measure of angles, Classification of triangles, Classification of quadrilaterals, polygons and three dimensional shapes.

4th week (23rd to 28th July): Chapter 6– Integers: Introduction, Representing integers on the number line, ordering of integers, addition of integers, subtraction of integers.

August:

1st week (1st to 4th August): Chapter 6– Integers:, Addition and subtraction of integers on number line.
Chapter 7 – Fractions: Introduction, types of fractions, conversion of unlike fractions into like fractions.

2nd week (6th to 11th August) : Fraction on number line, Equivalent fractions , Simplest form of a fraction

3rdweek (13th to 18th August) : Comparison of like fractions and unlike fractions , addition and subtraction of like fractions, Addition and subtraction of unlike fractions and mixed fractions.

4th week (20th to 25th August): Revision
5th week (27th to 31st August) :.Revision

September: Revision and Mid Term Exam

Activities:

1. Activity based on numeration
2. Activity based on divisibility rule
3. Activity based on properties of quadrilaterals.
4. Activity based on integers.
5. Activity based on fractions.

Syllabus for October to December:

Chapters:

8 Decimals
9Data Handling
10Mensuration
11Algebra
12Symmetry
13Ratio and Proportion
14Practical Geometry

October:

1st week (1st to 6th October): Chapter 8 – Decimals
Representation of decimals on number line, expanded form, changing a decimal numeral to a fraction, comparison of two decimal numbers.

2nd week (8th to 13th October): use of decimals, addition of numbers with decimals, subtraction of decimals

3rd week (15th to 20th October): Chapter 9 – Data Handling: Introduction, Organization of data. read and draw pictograph, read and draw bar graphs **Chapter 10 – Mensuration:** Introduction, perimeter of rectangle.

4th week (22nd to 27th October): applications to find perimeter of rectangle, perimeter of regular shapes. perimeter of square.

5th week (29th to 31st October): concept of area of a rectangle and square , measures of area

November:
1st week (2nd to 4th November): . word problems, Finding areas of compound figures.
Chapter11 – Algebra: Use of letters as symbols for numbers.

2nd week (5th to 10th November) : indicating multiplication & division with symbols, translating words into algebraic symbols, substitution.

3rd week (12th to 17th November): Equation and solution of an equation , **Chapter 12 – Ratio and proportion** concept of ratio, simplest form of ratio.

4th week (19th to 24th November): word problems on ratio, Division of a given quantity in a given ratio, proportion – introduction.

5thweek (26th to 30th November): find missing term of a proportion, word problems. Unitary Method.
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December:

1st week(3rd to 8th December) : **Chapter 13 – Symmetry**
Introduction, reflecting shapes, reflection line, symmetry in alphabets and in plane figures

.**2nd week (10th to 15th December):**. obtain the image of a point after reflection, finding reflection line

3rd week (17th to 22nd December) : Chapter 14 – Practical Geometry: Construction of a circle when its radius is known

4th week (24th to 29th December): Construction of a line segment, draw a perpendicular to a given length
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Activities:

1. Worksheet based on decimals
2. Activity based on bargraph and pictograph
3. Activity based on perimeter of compound figures
4. Activity based on symmetry
5. Activity based on practical geometry

January: Chapter 14- Practical Geometry: The perpendicular bisector of a line segment, to construct an angle equal to a given angle, angles of special measure using compasses and a ruler.

February: Revision (Final Exams)