SYLLABUS (2017-18)

CLASS-IV

SUBJECT-MATHEMATICS

Syllabus for April to September (First term):

Chapters:

1.Large Numbers

2. Additions

3. Subtraction

4. Multiplication

5. Division

6. Factors and Multiples

12. Patterns

APRIL:

1st week(6th,7th and 10th April): Basic Concepts

2nd week(11th to 15th April): **Chapter 1-Large Numbers:-**Recap Exercise, numbers beyond 9999, face value and place value, expanded form and standard form, comparing numbers

3rd week(17th to 22nd April): forming numbers, Successor and predecessor, Indian and International system of numeration

4th week(24th to 29th April): rounding off numbers, roman numerals rounding off numbers, **Chapter 2-Addition**:-Recap Exercise, addition of 5- and 6- digit numbers, rules of addition

MAY:

1st week(1st to 6th May): **Chapter 2-Addition:-** Word problems, estimating the sum,**Chapter 3- Subtraction:-**Recap Exercise

2nd week(8th to 12th May): Subtraction of 5- and 6- digit numbers, rules of subtraction, subtraction facts, addition and subtraction together

3rd week(15th to 20th May): Checking subtraction by addition, problem solving

4th week(22nd to 27th May): finding the missing number, estimating the difference

JULY:

1st week (3rd to 7th July): **Chapter 4-Multiplication:-** Recap Exercise,multiplicand,multiplier,product,properties of multiplication, learning to find the product horizontally, learning more tables-finding more products

2nd week (10th to 15th July): Multiplication by a 2-digit multiplier, multiplication by a 3-digit multiplier, lattice multiplication, word problems

3rd week (17th to 22nd July): **Chapter 5-Division:-** Recap Exercise, dividend, divisor, quotient, properties of division, division patterns, long division, long division by 2-digit divisions

4th week (24th to 29th July): long division by short division method, word problems, estimating the quotient, unitary method.

AUGUST:

1st week (1st to 5th August): **Chapter 6-Factors and Multiples:-** Introduction to factors, finding factors, multiples

2nd week (8th to 11th August): common factors and least common multiples, relationship between factors and multiples, common factors and highest common factor

3rd week (16th to 19th August): tests of divisibility, prime and composite numbers, prime factorization

4th week (21st to 26th August): **Chapter 12- Patterns:-** Recap Exercise, patterns in numbers and letters, patterns in addition and multiplication, tile and rangoli patterns

SEPTEMBER:- Revision and half yearly exam

ACTIVITIES:

1. Activity based on Numeration
2. Lab activity based on Abacus
3. Activity based on multiplication
4. Activity based on factors tree
5. Activity based on Pattern

Syllabus for October to December(Second term):

Chapters:

7. Understanding Fractions
8. Geometry
9. Metric Measures
10. Time
11. Money
13. Data Handling

OCTOBER:

1st week (3rd to 7th October): **Chapter 7-Understanding Fractions:-** Recap Exercise, fractions of whole numbers, equivalent fractions, improper fractions and mixed numbers

2nd week (9th to 14th October): comparing fractions, reducing to lowest terms, addition and subtraction of like fractions, addition and subtraction of unlike fractions

3rd week (16th to 18th October):**Chapter 8 –Geometry:-** Point, line, line segment and ray, measuring line segments, more about lines, line segments, rays, more about angles, closed and open figures

4th week (23rd to 28th October): perimeter, circle, relation between radius and diameter of a circle

NOVEMBER:

1st week (2nd to 4th November): Symmetry, solids. **Chapter 9- Metric Measures:-** Recap Exercise, the metric measures

2nd week (6th to 10th November): Addition and subtraction of metric units of length, conversion of units of measure of mass (weight), addition and subtraction of metric units of mass

3rd week (13th to 18th November): conversion of units of measure of capacity, addition and subtraction of metric units of capacity, **Chapter 10- Time:-**Recap Exercise, time to exact minute, A.M. and P.M.

4th week(20th to 25th November): seconds, conversion of units of time, the 24-hour clock time, addition and subtraction of time, time duration

5thweek(27th to 30th November): days in a year, writing date, month and year in short form. **Chapter 11-Money:-** Recap Exercise

DECEMBER:

1stweek (1st to 8th December): addition and subtraction of money, multiplication and division of money.

2ndweek (11th to 16th December):**Chapter 13-Data Handling:-** Recap Exercise, pictographs, bar graphs.

3rdweek(18th to 23rd December): Revision

4th week (26th to 30th December):Revision

JANUARY: Revision
 FEBRUARY: Final Exams

<u>ACTIVITIES:</u>

1. How to learn time
2. Activity based on symmetry
3. Lab activity based on fraction
4. Activity based on perimeter and area
5. Activity based on representation of data