## DELHI POLICE PUBLIC SCHOOL <br> SCHOLASTIC SYLLABUS

SESSION 2024-25
CLASS IV- MATHS - TERM 1

| APRIL 2024 | TOPIC AND SUBTOPICS |
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| VALUE/OBJECTIVES <br> - Develop proper understanding of the number system. <br> - Help students observe large numbers and express them in words and numerical form. <br> - Recognize the numbers by their place value and face value. <br> - Make comparisons and build numbers. <br> LEARNING OUTCOME <br> - To develop an understanding of Periods, Places. <br> - To acquire the knowledge of expanding numbers. | Unit - 1: NUMBERS <br> - Indian Place Value System <br> - 6 and 7 - digit numbers <br> - Face value, Place value <br> - Predecessor and successor <br> - Compare and Order <br> - Expand and Build numbers |
|  | Number Systems <br> 123 <br> 456 <br> 7890 |
|  | ACTIVITY <br> - Use of Abacus to form large numbers <br> - Use number meter and cards |


| MAY 2024 | TOPIC AND SUBTOPICS |
| :---: | :---: |
| VALUE/OBJECTIVES <br> (Unit - 1) <br> - Help students get familiarized with the ancient number systems and understand the usage of Roman numerals. <br> - Comprehend rules and learn to convert from one system to another. <br> (Unit - 13) <br> - Observe surroundings and identify patterns in different | Unit - 1: NUMBERS (continued) <br> - Symbols for Roman Numbers <br> - Writing Roman numbers till 500 <br> - Conversions between Roman and Hindu-Arabic numerals <br> - Simple addition and Subtraction |
| - Analyze the pattern in a set of numbers and continue the series. <br> - Draw patterns of their own. <br> LEARNING OUTCOME <br> - To understand the rules of writing Roman numbers upto 500. <br> - Develop numeracy skills. <br> - Ability to make logical connections and use reasoning skills. | Unit - 13: PATTERNS <br> - Patterns all around us <br> - Patterns in Addition and Subtraction <br> - Patterns in Multiplication and Division <br> - Tessellations |
|  | ACTIVITY <br> - Prepare a $3 \times 3$ grid of Roman numbers from 1-9 and cross out numbers when called. <br> - Cut out a shape and make tessellations. |





## CLASS IV- MATHS - TERM 2

| OCTOBER 2024 | TOPIC AND SUBTOPICS |
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| VALUE/OBJECTIVES <br> (Unit - 5) <br> - Identify numbers as prime and composite. <br> - Understand the relationship between factors and multiples. <br> - Develop problem solving skills involving factors and multiples <br> - Learn rules of divisibility specifically for numbers 2 to 9 and to determine if the test based on rule works. | Unit - 5: MULTIPLES AND FACTORS <br> - Properties of multiples and factors <br> - Prime and composite numbers <br> - Prime factorization <br> - Common multiples and factors <br> - LCM and HCF <br> - Relationship between LCM, HCF and product. <br> - Divisibility rules |
| - Identify numbers as prime and composite. <br> - Understand the relationship between factors and multiples. <br> - Develop problem solving skills involving factors and multiples | ACTIVITY <br> - Establish relationship between HCF, LCM and product of numbers <br> - Venn Diagram to find LCM and HCF |


| NOVEMBER 2024 | TOPIC AND SUBTOPICS |
| :---: | :---: |
| VALUE/OBJECTIVES <br> (Unit - 6) <br> - Familiarize with basic terms used in Geometry. <br> - Use instruments to measure and draw segments and circles. <br> - Apply spatial reasoning to name figures according to specifications <br> LEARNING OUTCOME <br> - Develop visual, spatial and problem-solving skills. | Unit - 6: GEOMETRY <br> - Point, ray, line, segment, angle, circle <br> - Types of angles and polygons <br> - Types of triangles and quadrilaterals <br> ACTIVITY <br> - Use paper folding to make geometrical figures |
| VALUE/OBJECTIVES <br> (Unit - 8) <br> - Read, write and identify fractions. <br> - Form equivalent fractions as per given directions. <br> - Learn to use fractions in real-life situations. <br> LEARNING OUTCOME <br> - Read, write and identify fractions. <br> - Learn to use fractions in reallife situations. | Unit - 8: FRACTIONS <br> - Types of fractions <br> - Making Equivalent fractions <br> - Conversion between mixed and improper fractions <br> - Writing a fraction in lowest terms <br> - Comparison and ordering <br> - Addition and subtraction <br> ACTIVITY <br> - Representing fractions using paper strips <br> - Use a fraction disc |

## DECEMBER 2024

## VALUE/OBJECTIVES

(Unit - 14)

- Understand the relationship between perimeter and area and recognize and apply in real-life applications


## LEARNING OUTCOME

- To enhance student knowledge of measurement
- Determine perimeter and area of assorted shapes


## VALUE/OBJECTIVES

(Unit - 9)

- Understand the meaning of decimals
- Identify similarities and differences between numbers and decimals
- Become aware of the purpose of using decimals.


## LEARNING OUTCOME

- Identify the purpose of using decimals.
- Recognize connections between Decimal numbers and Place values


## TOPIC AND SUBTOPICS

## Unit - 14: PERIMETER AND AREA

- Perimeter and area of regular figures
- Perimeter and area of a square and rectangle
- Applications to real life



## ACTIVITY

- Find perimeter of objects around you
- Compare areas if the perimeters are equal


## Unit - 9: DECIMALS

- Place values and reading a decimal
- Ordering decimals
- Conversion between fractions and decimals
- Addition and Subtraction of decimals



## ACTIVITY

- Representation of a decimal on a grid

| JANUARY 2025 | TOPIC AND SUBTOPICS |
| :---: | :---: |
| VALUE/OBJECTIVES <br> (Unit - 12) <br> - Role of money in our day-to-day life. Learn about the different uses of money (earning, spending and saving). <br> LEARNING OUTCOME <br> - Students will be able to handle cash and carry out age-appropriate transactions. <br> - Relate the value f money to personal consumption. | Unit - 12: MONEY <br> - Conversion between Rupee and Paise <br> - Operations on Money <br> - Word problems <br> - Currency of other countries <br> ACTIVITY <br> - Studying an electricity bill <br> - Mock shop |
| VALUE/OBJECTIVES <br> (Unit11) <br> - Able to read time, understand the breakdown of hours into minutes. <br> - Select appropriate tools to solve real-life problems related to time. <br> - Appreciate the concept of time with Calendar <br> LEARNING OUTCOME <br> - Techniques to help students manage their time more effectively. | Unit - 11: TIME <br> - Conversions between units of time <br> - 12 and 24 -hour clock <br> - Addition and subtraction of time <br> - Calendar <br> ACTIVITY <br> - Reading and showing time on clocks <br> - Making a sun dial |


| FEBRUARY 2025 |
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| MARCH 2025 | TOPIC AND SUBTOPICS |
| :---: | :---: |
| VALUE/OBJECTIVES <br> - Students will be able to refine and hone their learning skills and shall be able to perform better in the Annual assessment <br> LEARNING OUTCOME <br> - Manage time more effectively <br> - Feel equipped to approach exams with less anxiety and stress | REVISION <br> Revision worksheets will be given. |
|  |  |
|  | ANNUAL EXAMS ANNUAL EXAMNATION |

