ARMY PUBLIC SCHOOL GOPALPUR

SPLIT UP SYLLABUS (2020-21)

CLASS: VI SUBJECT: MATHEMATICS

MONTH   : APRIL

NO. OF PERIODS:8

TOPIC -KNOWING OUR NUMBERS.   **NO.OF DAYS :08**

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Indian system of numeration • International system of numeration • Conversions of units of length and mass • Estimation of outcomes of number operation.	Discussion method Problem solving method.	• Charts of number system. • Addition, subtractions on number line .	• Parents can provides abacus board and encourage them to use it. • Playing games on addition and subtractions	• Understand the concept of Indian and international system of numeration. • Able to convert the units of length and mass. • Able to understand to addition ,subtraction

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SPLIT UP SYLLABUS (2020-21)

CLASS: VI **SUBJECT: MATHEMATICS**

MONTH   : JUNE **NO. OF DAYS:10**

NO. OF PERIODS:10

TOPIC   :Ln-02 : WHOLE NUMBERS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Natural numbers • Whole numbers • Properties of numbers under addition and multiplications. • Number line • Patterns in whole number.	• Inductive method • Problem solving method	• Charts of number system. • Addition, subtractions on number line • Abacus	• Parents can provides abacus board and encourage them to use it. 1. Playing games on addition and subtractions	• Able to represent whole numbers on number line. • Able to find out the predecessor and the successor of number. • Able to do the addition ,multiplication, subtraction of whole number on number lines.

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CLASS: VI   SUBJECT: MATHEMATICS

MONTH   : JULY   NO. OF DAYS:08

                                                           NO. OF PERIODS:08

TOPIC   :Ln-03 : PLAYING WITH NUMBERS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/ AIDS	INTERFACE	LEARNING OUTCOME
• Simplification of brackets • Multiples and factors • Divisibility rule of 2,3,4,5,6,8,9,10,11 • Even and odd number • Prime and composite numbers • Co-prime numbers • Prime factorisation	• Inductive method • Problem solving method	• Abacus • Using games for developing number sense	• Parents play different types of number games with child. • Parents discuss the L.C.M AND H.C.F concepts with child.	• Able to calculate the factors and multiples of numbers. • Able to differentiate prime numbers and composite numbers, • Uses divisibility rules to find factor of a number • understand the concept LCM and HCF

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CLASS: VI   **SUBJECT: MATHEMATICS**

MONTH   :   JULY   **NO. OF DAYS:13**

NO. OF PERIODS:13

TOPIC   :Ln-04-BASIC GEOMETRICAL IDEAS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS /AIDS	INTERFACE	LEARNING OUTCOME
• Meaning of points, line segments and line. • Meaning of parallel lines and intersecting lines. • Polygons,angles ,triangles,quadrilateral and circles.	• Inductive method • Problem solving method	Paper cutting of different shapes.	• Parents encourage child to make differed types of shapes with paper.	• Understands the basics of geometry and defines them. • Visualising the geometrical ideas and explains the properties. • Understands about shapes and generalizes that closed figure divide the surface into three parts. • Links the shapes available in the nature to the classroom.

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SPLIT UP SYLLABUS (2020-21)

CLASS: VI   **SUBJECT: MATHEMATICS**

MONTH   : AUGUST   **NO. OF DAYS:12**

NO. OF PERIODS-12

TOPIC   :LN-05-UNDERSTANDING ELEMENTARY SHAPES

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Measuring line segments. • Right and straight angles. • Acute ,obtuse, and reflux angle. • Measuring angles. • Classification of triangles on the basics of sides and angles.	• Inductive method • Problem solving method	Different types of triangle made by students with the colour paper.	Parents encourage child to make differed types of shapes with paper.	1. Understands the measuring techniques and measuring accordingly. 2. Understands the elementary shapes and define them. 3. Visualise the elementary shapes and explain the properties. 4. Link plane shapes to solid shapes *OR 2-D TO 3-D.* 5. Understands the quadrilateral and its classification. 6. Calculate the faces, edges and vertices of 3-D shapes.

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SPLIT UP SYLLABUS (2020-21)

CLASS: VI   SUBJECT: MATHEMATICS

MONTH   : AUGUST   NO. OF DAYS-10

                                                                              NO. OF PERIODS- 10

TOPIC   :LN-06-INTEGERS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Defines integers. • Representation of integers on number line. • Addition and subtraction of integers. • Various properties if integers under addition and subtractions.	• Inductive method • Problem solving method	• Number line on chart paper. • Positive negative card game.	• Parent play different types of number game. • Children are play different types of number game with friends.	• Able to define the meaning of integers and how it is related to the whole number. • Able to represents the integers on the number line. • Able to do the addition and subtraction on number line. • Able to do addition and subtraction of integers.

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SPLIT UP SYLLABUS (2020-21)

CLASS: VI   **SUBJECT: MATHEMATICS**

MONTH   : SEPTEMBER   **NO. OF DAYS -15**

NO. OF PERIODS-15

TOPIC   :LN-07-FRACTIONS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
- Meaning of fractions - Representation of fraction on number line. - Meaning of proper, improper, and mixed fractions - Conversion of improper to mixed fractions - Equivalent fractions - Addition and subtraction of fractions.	- Inductive method - Problem solving method	Make different different fraction teams.	- Parents creates a pictures or pattern using fractions. - Parents encourage children to do fraction flowers and other figures.	- Understand and extends the number number family from natural number to the fractions through integers and whole numbers. - Link the fractions to the situations outsides the class. - Visualise the fractions and operations on fractions ,convert mixed into improper and vice-versa. - Able to do addition and subtraction of fractions

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CLASS: VI　　　　　　　　　　　　　　　　　**SUBJECT: MATHEMATICS**

MONTH　: OCTOBERS　　　　　　　　　　　**NO. OF DAYS -08**

　　　　　　　　　　　　　　　　　　　　　　NO.OF PERIODS-08

TOPIC　:LN-08-DECIMALS

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Value of tenths , hundredths. • Place value and face value of decimals. • Place value and face values of decimals number. • Comparing decimals • Addition and subtractions of decimals.	• Inductive method • Problem solving method	• Quizzes and problems as part of your **Decimals** topic. • Number games.	• Parents play different types of number game with children. • Parents encourage children to make a chart of decimal numbers.	• Extends and includes decimals on the number family and understands place value system. • Represent decimals on the number line and visualise decimals. • Convert fractions into decimals and vice-versa and small units into longer using decimals. • Applies basics operations on decimals and computes properly.

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CLASS: VI   SUBJECT: MATHEMATICS

MONTH   :NOVEMBER   NO. OF DAYS -10

NO.OF PERIODS-10

TOPIC   :LN-09- DATA HANDLING

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Introduction of data. • Recognition, recording, organising data. • Pictograph(interpretation and drawing) • Bar graph(interpretation) • Difference between bar graph and pictograph.	• Inductive method • Problem solving method	• Venn charts. • Bar charts. • Card for probability.	• Parents held children to collects some data for drawing bar graph.	• Learns why and how data should be organised. • Makes own way of organising data using tally mark in pictures and number, • Skilled to explore identity and represent data in pictograph and bar graph. • Capable of analysing and interpreting pictorial form of data. • Understanding the meaning and use of data organisation.

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CLASS: VI   **SUBJECT: MATHEMATICS**

MONTH   : NOVEMBER   **NO. OF DAYS -12**

                                                           NO.OF PERIODS-12

TOPIC   :LN-10-MENSURATION

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Meaning of region and boundary. • Meaning and calculation of perimeter. • Meaning and calculation of area. • Area and perimeter of rectangle and square.	• Inductive method • Problem solving method	• Different paper cutting paper for measurement of area and perimeter.	• Parents are encourage to measure the perimeter and area of home and garden. • And also measured the area and perimeter of book and copy.	1. Understand concept of perimeter and area . 2. Skilled to derive formula for perimeter and area of rectangle and square. 3. Feels competent to find his own way and strategies for calculating perimeter and area. 4. Get ready to apply the concept for solving day to day based problems. 5. Capable to explains the relationships between the perimeter and area of the geometrical figures.

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CLASS: VI   **SUBJECT: MATHEMATICS**

MONTH   :DECEMBER   **NO. OF DAYS-18**

TOPIC   :LN-11-ALGEBRA   **NO.OF PERIODS-18**

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
- The ideas of variable and constants. - Use of variable in common rules. - Rules from the arithmetic's. - Various expressions with the variables. - Using expressions practically. - Equations and its solutions.	- Inductive method - Problem solving method	- Using some matchsticks . - Some paper cutting.	Parents are encourage to do different patterned using matchstick.	. Understand the variable and how to use variable in the matchstick patterns. - Understands the algebraic expressions and the terms of algebraic expressions. - Able to solve word problem related to algebra.

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CLASS: VI   **SUBJECT: MATHEMATICS**

MONTH   :JANUARY   **NO. OF DAYS-16**

TOPIC   :LN-12-RATIO AND PROPERTION   **NO.OF PERIODS-16**

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Meaning of ratio and proportion. • Two quantities can be compared only if they are in the same ratio. • Equivalent ratio. • If two ratios are equal we say that they are in proportion. • Unitary method.	• Inductive method • Problem solving method	• Different types of paper cutting related to ratio and proportion.	• Parents will help the children to find out different types of ratios.	• Understanding ratio and proportion and describe relationship using ratios. • Skilled to compare quantities using proper units of measurements. • Competent to find his own way and strategies to apply unitary method to solve day to day real life problems. • Skilled to compute accurately and timely. • Understands unitary method.

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CLASS: VI   SUBJECT: MATHEMATICS

MONTH   :FEBRUARY   NO. OF DAYS-06

TOPIC   :LN-13-SYMMETRY   NO.OF PERIODS-06

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Making symmetric figures. • Figures with two lines of symmetry. • Figures with two or more lines of symmetry. • Reflection and the symmetry.	• Inductive method • Problem solving method	• Different types of symmetrical figures.	• Parents will help the child to collect different types of symmetrical figures from daily life.	• Finds symmetry in the surrounding and nature. • Understanding the meaning and existence of symmetry in our life. • Competent to justify the symmetry in shapes . • Skilled to draw the symmetrical shapes and lines of symmetry. • Capable of completing the figures to show symmetry.

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CLASS: VI   SUBJECT: MATHEMATICS

MONTH   :FEBRUARY   NO. OF DAYS-10

TOPIC   :LN-14-PRACTICAL GEOMETRY   NO.OF PERIODS :10

SUB- TOPICS	METHODOLOGY	TEACHING LEARNING MATERIALS/AIDS	INTERFACE	LEARNING OUTCOME
• Different types of line and line segments. • Different types of angles. • Perpendicular bisector of lines. • Copy of angles. • circle	• Inductive method • Problem solving method	• Geometry box.	• Parents will help the child to draw different types of figures.	• Able to draw the line and line segments. • Able to draw the angles. • Able to draw different types of angles. • Able to do the copy of angles. • Able to draw circles. • Able to draw the line bisector and angle bisectors.