

**MONTHLY SYLLABUS**  
**SESSION-2016-17**  
**CLASS-V**  
**SUBJECT : MATHEMATICS**

<b>MONTH</b>	<b>CONTENT</b>
April 2016	<p>Revision (from Book of Class IV)</p> <p>Four operations</p> <p>Dodging tables (2 to 200)</p> <p><b>Unit 9</b> : Halves and Quarters</p> <p><b>Unit 13</b> : Fields and Fences</p> <p><b>Note : In addition to above mentioned topics the teacher may revise any other topic from the syllabus of previous class as per the requirement of the students.</b></p>
May 2016	<p><b>Unit 1</b> : The fish tale –(1) large number upto 1 crore (2) comparison of numbers and number names, fisherman and their boats (3) problems related to speed, distance, time (4) the fish market, fish bank.</p> <p><b>Activity:</b></p> <p>1) Drawing different types of fish and sea creatures with different geometrical shapes.</p> <p>2) simple word problems on distance and time</p> <p>3) To read the entries in your bank passbook and make the same in your notebook.</p> <p><b>Mental Maths.</b></p>
11.05.2016 to 30.06.2016	<b>SUMMER VACATION</b>

<p>July 2016</p>	<p><b>Unit-1</b> : The fish tale – (1) Concept of loan, interest and word problems. (2) Fish drying factory and related problems.</p> <p><b>Activity :</b></p> <ol style="list-style-type: none"> <li>1) Simple word problems based on interest cost, price etc.</li> <li>2) Create bank scene for loan and interest</li> </ol> <p><b>Mental Maths.</b></p> <p><b>Unit 2</b> : Shapes and Angles – (1) Introduction of angles, (2) Making shapes with matchsticks, (3) Angles in geometrical shapes, (4) Measuring angles with divider, (5) Types of Angles, (6) Angles in Alphabets, (7) Changing shapes and angles, (8) Angles in clock, (9) Introduction to protractor ‘D’ and Measuring angles with it.</p> <p><b>Activity:</b></p> <ol style="list-style-type: none"> <li>1) Making different geometrical shapes with matchsticks and finding angles in them.</li> <li>2) Measuring the given angles with protractor.</li> <li>3) Angle sum property of triangle using paper folding activity.</li> <li>4) Making different shapes by paper cutting and measure its angles.</li> <li>5) Making different Angles by your arms and leg.</li> </ol> <p><b>Mental Maths.</b></p> <p><b>Unit 3</b> : How many squares – (1) Perimeter and area (2) Use of square boxes (grid) to find area (3) Comparison of areas of different objects (4) Area of triangle and comparison of area of different triangles in a grid (5) Puzzle with five squares</p> <p><b>Activity:</b></p> <ol style="list-style-type: none"> <li>1) Find the area of different objects by using graph paper</li> <li>2) Find the perimeter of different objects with the use of scale</li> </ol>
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	<p>and thread</p> <p>3) Making of different shapes using five squares.</p> <p>4) Make different triangles by paper cutting, compare their area by using grid.</p> <p><b>Mental Maths.</b></p>
<p>August 2016</p>	<p><b>Unit 4 :</b> Parts and wholes – (1) Fractions, Equivalent Fractions (2) Dividing different shapes and things into fractions, shading a part of whole and make fractions (3) Patterns in parts (4) Making different patterns by geometrical shapes (5) Part to whole (6) How we can complete different incomplete figures (7) Conversion of time and money into fractions.</p> <p><b>Activity:</b></p> <p>1) Draw a rectangle, divide it into three equal parts and tricolour it.</p> <p>2) Learn equivalent fraction by dividing a shape in different equal parts.</p> <p>3) Parts of the strips.</p> <p>4) Making the fractions of time spent in different activities of the whole day.</p> <p>5) Role play – ‘Market scene’</p> <p><b>Mental Maths.</b></p> <p><b>Unit 5 :</b> Does it look the same – (1) Making patterns with a drop of colour and paper folding (2) Line of symmetry (3) Objects in the mirror (4) Half rotation (5) One-fourth rotation (6) One-third and one sixth rotation.</p> <p><b>Activity:</b></p> <p>1) Dividing different shapes and things into half vertically and horizontally.</p>

	<p>2) Make patterns of your own with block printing, etc.</p> <p>3) Finding figures which look same after <math>1/2</math>, <math>1/4</math>, <math>1/3</math> and <math>1/6</math> rotation.</p> <p>4) Making flash cards of alphabets and numbers for rotation.</p> <p><b>Mental Maths</b></p> <p><b>Unit 6</b> : Be my multiple, I will be your factor – (1) Introduction about multiples using tables (2) Finding out the multiples of different numbers (3) Common multiples (4) L.C.M. (5) Introduction of factors: Use of grid for square shapes to find factors (6) Common factors (7) Factor tree (8) H.C.F. and related word problems.</p> <p><b>Activity:</b></p> <ol style="list-style-type: none"> <li>1) To find out the multiples of different given numbers.</li> <li>2) To find out common multiples of 7 and 9 by Venn diagram.</li> <li>3) Finding factors of given numbers.</li> <li>4) Making factor tree of given numbers in different way.</li> </ol> <p><b>Mental Maths.</b></p>
September 2016	<p><b>Unit 7</b> : Can you see the pattern – (1) Patterns from our daily life (2) Completion of different series patterns (3) Magic squares (4) Magical Hexagon (5) Pattern in number series (6) Calendar Magic (7) Puzzles and word problems related to number series.</p> <p><b>Activity :</b></p> <ol style="list-style-type: none"> <li>1) Finding patterns in given series</li> <li>2) Making different series patterns</li> <li>3) Fill different numbers in the given magic squares.</li> <li>4) Finding 3x3 box in the calendar and pattern in it.</li> <li>5) Simple word problems on numbers.</li> </ol>

	<p><b>Mental Maths.</b></p> <p><b>Unit 8 :</b> Mapping your way – (1) Know about map of India (2) Distance between two points on the map (3) Scale reading in maps (4) Hexagons in map and angles made in between, (5) Journey of Red Fort : Understanding of directions (6) Scaling of images: big and small (7) Map of India and its states (8) Map of school and classroom.</p> <p><b>Activity:</b></p> <ol style="list-style-type: none"> <li>1) Finding different places in the given map.</li> <li>2) Finding the distance between two cities according to given scale in the map.</li> <li>3) Show four states in map of India in four different directions.</li> <li>4) Draw map of school with scale.</li> <li>5) Finding out stations on the map of Metro.</li> </ol>
	<b>REVISION FOR SA-I EXAMS.</b>
	<b>SA-I : Examination</b>
	<b>AUTUMN BREAK</b>
October 2016	<p>Discussion on SA-I Question paper and answer sheets.</p> <p><b>Unit 9 :</b> Boxes and sketches – (1) Making a square box, introduction to cubes and cuboids (2) Formation of a box, its faces (3) Map of floors and 3-D figures, (4) Understanding the difference between maps and 3-D figures. (5) Method of drawing 3-D figure of a cube (6) Views from different angles: front, back and above (7) Difference between 2-D and 3-D figures.</p> <p><b>Activity :</b></p>

	<p>1) Making of nets of different 3-D shapes.</p> <p>2) Draw pictures of boxes made from different geometrical shapes, i.e., square, rectangle, cone etc.</p> <p>3) Name some cubical shapes objects around you.</p> <p>4) Making 3-D pictures of a cuboid.</p> <p>5) Making a bridge using matchbox and find the difference between its views from front, side and above.</p> <p>6) Use real objects for different views (like glass, pencil, etc.)</p> <p><b>Mental Maths.</b></p>
November 2016	<p><b>Unit 10</b> : Tenths and Hundredths - (1) Tenths part (2) Conversion of higher units into lower (m, cm to mm and vice-versa) (3) Tenths parts in scale (4) Conversion of fraction into decimal and vice-versa (5) Hundredth part in the units of length (km, m, etc.) (6) Currency of different countries, (7) Conversion of currency (rupee into dollar, etc.) (8) Addition and subtraction of decimals (9) Minimum and maximum temperature of a day.</p> <p><b>Activity :</b></p> <p>1) Conversion of given units m, cm, into tenth parts, i.e., cm, mm and vice-versa</p> <p>2) Estimate the length of different given objects and then measuring them</p> <p>3) Collect different rupee-notes, estimate their lengths and width and then actually measure them</p> <p>4) Make designs in 10x10 grid by colouring tenth/hundredth parts in it.</p> <p>5) Collect pictures of currencies of different countries and find their value in rupees</p> <p>6) Note the minimum and maximum temperature for a week and</p>

	<p>find their difference.</p> <p>7) Use of thermometer for temperature reading.</p> <p><b>Mental Maths.</b></p>
December 2016	<p><b>Unit 11:</b> Area and its boundary- (1) Introduction of area and perimeter, (2) Comparison of area of different objects (3) Simple word problems based on area and perimeter (4) Puzzles related to area and perimeter (5) Dividing grid into different area (conversion of <math>m^2</math> into <math>km^2</math> and vice-versa) (6) Objects with different shapes and perimeter can have same area and vice-versa (7) Finding side when area / perimeter is given.</p> <p><b>Activity:</b></p> <ol style="list-style-type: none"> <li>1) Use of graph paper for finding area.</li> <li>2) Measure the length and width of your maths book, pencil box, etc. and find its area and perimeter</li> <li>3) Use of postcard to form a belt by cutting pasting strips of it. Make your belt as large as possible.</li> <li>4) Use a thread to measure the perimeter of given figures.</li> <li>5) Draw any 2 squares (one is double of the other) and compare their areas and perimeter.</li> </ol> <p><b>Mental Maths.</b></p> <p><b>Unit-12 :</b> Smart charts – (1) Use of tally marks, frequency table (2) Reading of tally marks (3) Data table of helping hands (4) Reading of Chapati chart (Pie chart) and bar graph (5) Making of bar graph and chapatti chart (6) Family tree (7) Growth chart of a plant</p> <p><b>Activity:</b></p> <ol style="list-style-type: none"> <li>1) Count and note the number and types of vehicles passing from your street and make a frequency table.</li> </ol>

	<p>2) Find out how many students of your class help their parents in household works and make a table.</p> <p>3) Ask your 10 friends about what work they do after school hours and make a chapatti chart</p> <p>4) Note down the temperature of two different states and make a bar-graph.</p> <p><b>Mental Maths.</b></p>
26.12.2016 to 15.01.2017	<b>WINTER BREAK</b>
January 2017	<p><b>Unit 13</b> : Ways to Multiply and Divide – (1) Simple multiplication (2) Multiplication by breaking method (3) Daily-life problems for multiplication (4) Patterns in multiplication (5) Simple division problems (6) Division by long methods (7) Mental puzzles of multiplication and division (8) Checking answer of division</p> <p><b>Activity:</b></p> <p>1) Practice sums of multiplication by breaking method</p> <p>2) Puzzles related to multiplication</p> <p>3) Mock shopping situation created for mental calculations</p> <p>4) Different sums of division and checking the answer by multiplication.</p> <p><b>Mental Maths.</b></p>
February 2017	<p><b>Unit 14:</b> How big, How heavy – (1) Understanding the concept of volume (2) Measuring of volume, unit of volume (3) Volume of cube and cuboid (4) Simple word problems related to volume (5) Concept of weight, unit of weight.</p>

	<p><b>Activity:</b></p> <ol style="list-style-type: none"> <li>1) Measure the volume of a match box</li> <li>2) Find different shapes made on a note of Rs. 100</li> <li>3) Take 2 cards and make pipes by folding them length and width wise, thus compare their volume</li> </ol> <p><b>Mental Maths.</b></p>
	<p><b>REVISION FOR SA-2 EXAMINATION</b></p>
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