

**The Orchid School  
Baner  
Syllabus Overview 2015- 2016  
Std : IV  
Subject : Math**

Month	Lesson / Content / Name of the Book	Expected Learning Objective	Activities/FAs Planned
<b>APRIL</b>	<b>Numbers</b> <ul style="list-style-type: none"> <li>● Read and write numbers( upto 6-gits) Indian and International System</li> <li>● Expanded form.</li> </ul>	Students will be able to- <ul style="list-style-type: none"> <li>● read, write, order and compare numbers up to 6 digits in Indian and International System.</li> <li>● Write numbers upto 6 and 7 digits in words and in their expanded form.</li> </ul>	
	<ul style="list-style-type: none"> <li>● Place value. Compatible numbers</li> </ul>	Students will be able to state the place value of the given numbers.	
	<ul style="list-style-type: none"> <li>● Compare and order numbers</li> </ul>	<ul style="list-style-type: none"> <li>● Students will be able to compare two numbers.</li> <li>● Students will be able to order the given numbers into ascending and descending order.</li> </ul>	Activity using number cards.
	<ul style="list-style-type: none"> <li>● Form greater and smaller numbers.</li> </ul>	<ul style="list-style-type: none"> <li>● Students will be able to form greater and smaller numbers using given numbers.</li> </ul>	
	Revision of topics taught in April.		

<b>JUNE</b>	<b>Multiples and factors:</b> <ul style="list-style-type: none"> <li>● Find factors</li> <li>● Find multiples</li> </ul>	<ul style="list-style-type: none"> <li>● Students will be able to identify the common multiples and factors of any two numbers.</li> </ul>	
	<ul style="list-style-type: none"> <li>● Prime or Composite Numbers</li> </ul>	<ul style="list-style-type: none"> <li>● Students will be able to define and identify prime and composite numbers.</li> </ul>	<ul style="list-style-type: none"> <li>● Sieve of Eratosthenes to find prime numbers.</li> </ul>
<b>FA 1</b>			
<b>JULY</b>	<b>Addition-</b> <ul style="list-style-type: none"> <li>● Addition facts.</li> <li>● Adding 6-digit numbers.</li> </ul>	<ul style="list-style-type: none"> <li>● Students will be able to add any two or three 6-digit numbers, without carryover.</li> </ul>	
	<ul style="list-style-type: none"> <li>● 6-digit addition with carry over.</li> <li>● Story sums.</li> </ul>	Students will be able to- <ul style="list-style-type: none"> <li>● Add two or three 6- digit numbers with carryover.</li> <li>● Apply addition to one or two steps story sums.</li> <li>● Apply knowledge of addition to solve story problems in real-life context.</li> </ul>	<ul style="list-style-type: none"> <li>● Throw a dice a number of times to form 2 six- digit numbers. Add and subtract them.</li> </ul>
	Subtraction- <ul style="list-style-type: none"> <li>● subtraction facts</li> <li>● subtraction of 6 digit numbers.</li> </ul>	Students will be able to- <ul style="list-style-type: none"> <li>● Subtract using 6 digit numbers without borrowing</li> <li>● Subtract 6digit numbers with borrowing</li> </ul>	
	<ul style="list-style-type: none"> <li>● Subtraction in story sums.</li> </ul> Story sums with multiple operations (+, -)	Students will be able to - <ul style="list-style-type: none"> <li>● Apply the subtraction of 6 digit numbers in story sums.</li> </ul>	Use a bill to add and subtract money.

	<b>Geometry and Patterns</b> <ul style="list-style-type: none"> <li>● Basic concepts of geometry</li> <li>● Introduction to circles (Diameter and radius)</li> <li>● Draw circles using compass</li> </ul>	Students will be able to - <ul style="list-style-type: none"> <li>● define point, line, segment, ray, parallel lines.</li> <li>● identify circle and its parts.</li> <li>● draw circles of a given radius or diameter using a compass.</li> </ul>	
<b>AUG</b>	<ul style="list-style-type: none"> <li>● Shapes</li> <li>● Symmetry and Reflections</li> </ul>	Students will be able to <ul style="list-style-type: none"> <li>● combine 2- D shapes to make figures using pictures and tangrams.</li> <li>● Identify and draw line of symmetry in different shapes.</li> </ul>	Ink/paint blot activity. <ul style="list-style-type: none"> <li>● Making shapes with the help of tangram kit.</li> </ul>
	<ul style="list-style-type: none"> <li>● 2-D, 3-D figures and their properties.</li> </ul>	Students will be able to - <ul style="list-style-type: none"> <li>● Identify the relationship between 2-D and 3-D shapes.</li> <li>● Identify faces , edges and corners of 3-D shapes.</li> <li>● Create nets of a cube and cuboid.</li> </ul>	Use 3-D shapes to count number of edges, faces and vertices. <ul style="list-style-type: none"> <li>● Make a cube and cuboid out of a net.</li> </ul>
	<b>Multiplication</b> <ul style="list-style-type: none"> <li>● Multiplication Facts</li> <li>● Pattern in multiplication</li> <li>● multiply with or without carry over.</li> </ul>	Students will be able to - <ul style="list-style-type: none"> <li>● Multiply a given number by a two digit number.</li> <li>● Review the meaning and the properties of multiplication.</li> </ul>	<ul style="list-style-type: none"> <li>● Distributing the given objects in groups to show repeated addition as multiplication.</li> </ul>
	<ul style="list-style-type: none"> <li>● multiplication in real life problems.</li> <li>● Framing and solving of multiplication story sums.</li> </ul>	Students will be able to - <ul style="list-style-type: none"> <li>● Mentally multiply a number by the multiples of 10 or 100.</li> <li>● Multiply any two numbers up to three digit numbers by a one-digit and two digit number.</li> </ul>	
<b>FA 2</b>			
	<b>Division</b> <ul style="list-style-type: none"> <li>● Equal distribution</li> <li>● Division properties and division facts,</li> <li>● division as repeated subtraction,</li> </ul>	Students will be able to - <ul style="list-style-type: none"> <li>● Recognise division as a process of equal sharing.</li> <li>● Identify division as a repeated subtraction.</li> </ul>	<ul style="list-style-type: none"> <li>● Dividing the given objects into equal groups to demonstrate the understanding of division.</li> </ul>

<b>SEPT</b>	Revision week		
	Summative Assessment		
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	Revision of multiplication and division.	Students will be able to recall the process of multiplication and division	
<b>SA 1</b>			
	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>● Recognising units of length - Kilometre, metre, millimetre, decimetre . Centimetre</li> <li>● Recognising units of length - Kilometre, metre, millimetre, decimetre . Centimetre</li> <li>● Measurement of perimeter.</li> </ul>	<ul style="list-style-type: none"> <li>● Students will be able to list standard units of measuring length/distance</li> </ul>	<ul style="list-style-type: none"> <li>● Measuring the length of the edges of the objects around them.</li> </ul>
	<ul style="list-style-type: none"> <li>● Conversion between units of length from big to small</li> <li>● Addition and subtraction of lengths in mixed units.</li> </ul>	<p>Students will be able to-</p> <ul style="list-style-type: none"> <li>● Convert the unit of length from higher unit to lower unit and vice a versa</li> <li>● Apply the conversion of units of length in story problems <ul style="list-style-type: none"> <li>● Solve story sums involving length (+, _)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Measuring the distance from the classroom to the end of the corridor using a measuring tape.</li> </ul>

<b>OCT</b>	<p>Weight</p> <ul style="list-style-type: none"> <li>● Standard units of weight -kilograms, grams, milligrams</li> <li>● Conversion between units of length from big to small</li> <li>● Recording and estimating weights</li> </ul>	<p>Students will be able to-</p> <ul style="list-style-type: none"> <li>● List various standard units of measuring weight <ul style="list-style-type: none"> <li>● Practical tasks related to measuring weight <ul style="list-style-type: none"> <li>● Conversion of units of weight</li> </ul> </li> </ul> </li> <li>● Apply conventions of writing in story problem.</li> </ul>	<p>Estimating the weight of different objects /fruits /vegetables and then comparing by actually weighing with the help of a balance.</p>
	<p>Capacity</p> <ul style="list-style-type: none"> <li>● Standard units of capacity- litre and millilitre</li> <li>● Estimation of capacity</li> <li>● Addition and subtraction of capacity in mixed units</li> <li>● Selection of appropriate measurement tool</li> <li>● Conversion between units of length from big to small</li> </ul>	<p>Students will be able to-</p> <ul style="list-style-type: none"> <li>● Read and record the capacity of various objects <ul style="list-style-type: none"> <li>● Addition and subtraction of mixed units.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Compare and guess the capacity of different beakers.</li> </ul>
<b>NOV</b>	<ul style="list-style-type: none"> <li>● Conversion between units of length from big to small</li> </ul>	<ul style="list-style-type: none"> <li>● Conversion of units of capacity and apply them in story problem</li> </ul>	
	<p><b>Introduction to area</b></p>	<p>Students will be able to-</p> <ul style="list-style-type: none"> <li>● Explore area of simple shapes using graph paper.</li> <li>● Find area of irregular and regular shapes using graph paper.</li> </ul>	<ul style="list-style-type: none"> <li>● Use a graph paper to find area of a regular shape counting the squares.</li> </ul>
<b>FA 3</b>			
	<p><b>Fractions</b> Fractions as a part of whole Identification of like/unlike fractions</p>	<p>Students will be able to-</p> <ul style="list-style-type: none"> <li>● Identify half, one-fourth and three fourths of a whole</li> <li>● Identify like and unlike fractions</li> </ul>	<ul style="list-style-type: none"> <li>● Folding of paper to understand the different fractions.</li> <li>● Selecting the objects in the group to show the fraction.</li> </ul>

<b>DEC</b>	Revision week		
	FA3		
	FA 3		
<b>JAN</b>	Comparison and order of fractions Equivalent fractions	Students will be able to - ●compare and order like fractions ● find equivalent fractions to the given fractions.	
	Addition, subtraction of like fractions Multiply a proper fraction by a whole number. Application of fractions in problem solving	Students will be able to - ●add two or more like fractions. ●Subtract a smaller fraction from a larger fraction.(like fractions) ●Multiply proper fraction with a whole number by reducing it to lowest term.	
	Story sums involving fractions (+, -)	Students will be able to solve story sums involving fractions.	
	<b>Introduction to decimals</b>	Students will be able to define decimals as fractions with denominators 10, 100 and 1000	

<b>FA 4</b>			
<b>FEB</b>	Since the book have changed, a stock of portion completed till January 2016 will be taken to further update the syllabus		
<b>MARCH</b>			
<b>SA 2</b>			