

**Common Understanding & Proficiency Assessment Mathematics – 2018-19**  
**Class- V Syllabus (Based on common themes/content areas)**

S.NO	TOPICS	SUB TOPICS
1.	Place Value	<ul style="list-style-type: none"> <li>• 7 &amp; 8-digit numbers</li> <li>• Comparing &amp; Ordering Numbers</li> <li>• International place value system</li> <li>• Comparing Indian &amp; International Systems</li> <li>• Rounding off numbers</li> <li>• Roman Numbers</li> </ul>
2.	Operations on numbers	<ul style="list-style-type: none"> <li>• Addition and subtraction</li> <li>• Multiplication</li> <li>• Division (including 2-digit divisors)</li> <li>• DMAS &amp; Averages</li> <li>• Unitary Method</li> </ul>
3.	Multiples and Factors	<ul style="list-style-type: none"> <li>• Understanding Multiples and Factors</li> <li>• Divisibility Rules</li> <li>• Prime and Composite, Twin-Prime Numbers</li> <li>• Prime Factorization</li> <li>• HCF and LCM</li> </ul>
4.	Fractions	<ul style="list-style-type: none"> <li>• Types of fractions</li> <li>• Equivalent fractions</li> <li>• Reducing to lowest forms</li> <li>• Comparing and ordering fractions</li> <li>• Addition and subtraction of fractions</li> <li>• Multiplication and division of fractions -simple</li> </ul>
5.	Decimals	<ul style="list-style-type: none"> <li>• Understanding decimals</li> <li>• Understanding tenths, hundredths and thousandths</li> <li>• Equivalent decimals, Like and unlike decimals</li> <li>• Converting fractions to decimal</li> <li>• Converting decimals to fractions</li> <li>• Comparing and Ordering Decimals</li> <li>• Addition and Subtraction of decimals</li> <li>• Rounding off decimals</li> <li>• Multiplication and division of decimals</li> </ul>
6.	Geometry	<ul style="list-style-type: none"> <li>• Overview (Relationship between 2D &amp; 3D shapes, Rotation &amp; Reflection of 2D shapes, Symmetry in 3D shapes)</li> <li>• Line, line segment, ray, point, intersecting, parallel and perpendicular lines</li> <li>• Types of angles</li> <li>• Measuring and drawing angles using protractor</li> </ul>
7.	Measurement	<ul style="list-style-type: none"> <li>• Measurement of Length, Mass &amp; Capacity</li> <li>• Estimating Measures</li> <li>• Interconversion of units</li> <li>• Addition and subtraction of units</li> </ul>
8.	Shapes and Patterns	<ul style="list-style-type: none"> <li>• Symmetry</li> <li>• Patterns</li> <li>• Turns</li> <li>• Tessellations</li> </ul>
9.	Area and Perimeter	<ul style="list-style-type: none"> <li>• Perimeter of Regular and irregular figures.</li> <li>• Area of regular and irregular figures</li> <li>• Area by counting grids</li> <li>• Area of Triangle</li> <li>• Units of area &amp; perimeter</li> <li>• Word Problems</li> </ul>

S.NO	TOPICS	SUB TOPICS
		<ul style="list-style-type: none"> <li>• Volume of cube and cuboid</li> <li>• Nets (cube cylinder, cones)</li> <li>• Looking at shapes</li> </ul>
11.	Time and Temperature	<ul style="list-style-type: none"> <li>• Units of time</li> <li>• Conversion of units</li> <li>• Calculating durations</li> <li>• Time and date</li> <li>• Temperature and its units</li> </ul>
12.	Money	<ul style="list-style-type: none"> <li>• Unitary Method – Word problems</li> <li>• Conversion of money</li> <li>• Concept of Profit and Loss</li> <li>• Finding CP and SP</li> </ul>
13.	Data Handling	<ul style="list-style-type: none"> <li>• Representing data as a pie-chart</li> <li>• Bar Graphs</li> <li>• Pictographs</li> </ul>