



**Rationalised FINAL Syllabus Of Class VIII MATHS  
(2021-2022)**

**Text Book: NCERT**

**Total No of chapters : 16**

**No. of chapters deleted : 5**

<b>Name and No Of the Chapters</b>	<b>Sub-topics of the chapter</b>	<b>Deletion and reason</b>	<b>Topics that will be covered</b>
<b>Ch-1: Rational Numbers ( APRIL - JUNE )</b>	<ul style="list-style-type: none"> <li>All 4 Properties of R.N's with 4 - operations.</li> <li>Representation of RN's on the number line.</li> </ul>	<b>COMPLETED ( APRIL - JUNE )</b>	
<b>Ch- 2 :Linear Equations In One Variables. (JUNE)</b>	<ul style="list-style-type: none"> <li>Solving Linear Equations.</li> <li>Solving Linear Equations with variables on both sides.</li> <li>Application Based questions on linear Equations.</li> </ul>	<b>COMPLETED ( JUNE)</b>	
<b>Ch- 3: Understanding Quadrilaterals. ( JUNE-JULY )</b>	<ul style="list-style-type: none"> <li>Angle Sum Property.</li> <li>Sum Of the measures of Interior and exterior angles.</li> <li>Properties of Trapezium, Rhombus, Parallelogram, Square. Rectangle.</li> </ul>	<b>COMPLETED ( June-July )</b>	
<b>Ch- 4 : Practical Geometry ( JULY)</b>	Construction Of <ul style="list-style-type: none"> <li>Square, Rectangle, Rhombus, any quadrilateral)</li> </ul>	<ul style="list-style-type: none"> <li><b>COMPLETED (July)</b></li> </ul>	

<p><b>Ch-5 - Data handling</b> (JULY)</p>	<p>Construction of</p> <ul style="list-style-type: none"> <li>• Bar Graphs,</li> <li>• Histograms,</li> <li>• Pie Charts.</li> <li>• <b>Probability</b></li> </ul>		<p>Construction of</p> <ul style="list-style-type: none"> <li>• Bar Graphs,</li> <li>• Histograms,</li> <li>• Pie Charts.</li> <li>• <b>Probability (Will be taken up as a CBE activity)</b></li> </ul> <p>( COMPLETED - JULY)</p>
<p><b>CH- 6: Squares and Square roots.</b> ( AUGUST)</p>	<ul style="list-style-type: none"> <li>• Perfect and not perfect squares.</li> <li>• Square of a number.</li> <li>• Pythagorean Triples.</li> <li>• Finding square roots by prime factorisation and division method.</li> </ul>	<p>-----</p>	<ul style="list-style-type: none"> <li>• Perfect and not perfect squares.</li> <li>• Square of a number.</li> <li>• Pythagorean Triples.</li> <li>• Finding square roots by prime factorisation and division method.</li> </ul>
<p><b>CH-7: Cubes and Cube roots.</b> ( DELETED)</p>	<ul style="list-style-type: none"> <li>• Perfect cubes.</li> <li>• Cube roots by factorisation method.</li> </ul>	<p><b>DELETED</b> On the same base lines as Square roots and the concept comes up again in the chapter - Exponents and powers .</p>	
<p><b>CH- 8: Comparing Quantities</b> ( AUGUST)</p>	<ul style="list-style-type: none"> <li>• Ratios</li> <li>• Proportions.</li> <li>• Increase and decrease Percent</li> <li>• Discounts</li> <li>• Sales tax/ VAT/GST.</li> <li>• Profit and Loss.</li> <li>• Compound Interest.</li> </ul>		<ul style="list-style-type: none"> <li>• Ratios</li> <li>• Proportions.</li> <li>• Increase and decrease Percent</li> <li>• Discounts</li> </ul>

	<ul style="list-style-type: none"> <li>• Rate compounded Annually / half yearly</li> </ul>		<ul style="list-style-type: none"> <li>• Profit and Loss.</li> <li>• Compound Interest.</li> <li>• Rate compounded Annually / half yearly</li> </ul>
<p><b>Ch- 9 :</b> <b>Algebraic Equations and Identities.</b></p> <p><b>(SEPTEMBER - OCTOBER)</b></p>	<ul style="list-style-type: none"> <li>• Addition and Subtraction Of Algebraic expressions.</li> <li>• Multiplication Of Monomials, Trinomials and Polynomials.</li> <li>• Applying the standard Identities ( I) (II) (III ) to solve the Problems.</li> </ul>		<ul style="list-style-type: none"> <li>• Addition and Subtraction Of Algebraic expressions.</li> <li>• Multiplication Of Monomials,</li> <li>• Trinomials and Polynomials.</li> <li>• Applying the standard Identities ( I) (II) (III ) to solve the Problems .</li> </ul>
<p><b>CH- 10 :</b> <b>Visualising Solid Shapes</b> <b>( DELETED)</b></p>	<ul style="list-style-type: none"> <li>• Views of 3D-Shapes</li> <li>• Solid shapes - Identify the top view, front view and side view.</li> <li>• Mapping Space Around Us.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>DELETED</b></li> <li>• Repetition of what has been done in classes VI and VII..</li> </ul>	

	<ul style="list-style-type: none"> <li>• Faces, Edges and Vertices of Solid Shapes.</li> <li>• Euler's formula.</li> </ul>		
<b>CH-11: Mensurations (OCTOBER)</b>	<ul style="list-style-type: none"> <li>• Area Of Square, Rectangle, Circle, Semicircle.</li> <li>• Area Of Special quadrilaterals, Trapezium, Rhombus.</li> <li>• Area of Solid Shapes-Cube, cuboid and Cylinder,</li> <li>• Surface area and Total Surface area of Cube, Cuboid and Cylinder.</li> <li>• Volume of Cube, cuboid and Cylinder,</li> </ul>		<ul style="list-style-type: none"> <li>• Area Of Square, Rectangle, Circle, Semicircle.</li> <li>• Area Of Special quadrilaterals, Trapezium, Rhombus.</li> <li>• Area of Solid Shapes-Cube, cuboid and Cylinder,</li> <li>• Surface area and Total Surface area of Cube, Cuboid and Cylinder.</li> <li>• Volume of Cube, cuboid and Cylinder,</li> </ul>
<b>CH- 12: POWERS AND Exponents  ( OCTOBER - NOVEMBER)</b>	<ul style="list-style-type: none"> <li>• Powers with Negative Exponents.</li> <li>• Laws of Exponents.</li> <li>• Use of Exponents to Express Small Numbers in Standard Form</li> </ul>		<ul style="list-style-type: none"> <li>• Powers with Negative Exponents.</li> <li>• Laws of Exponents.</li> <li>• Use of Exponents to Express Small</li> </ul>

			Numbers in Standard Form
<b>CH- 13 : Inverse and Direct Proportion</b>  <b>( OCTOBER - NOVEMBER)</b>	<ul style="list-style-type: none"> <li>• Direct Proportion and its application based problems.</li> <li>• Inverse Proportion and its application based problems.</li> <li>•</li> </ul>		<ul style="list-style-type: none"> <li>• Direct Proportion and its application based problems.</li> <li>• Inverse Proportion and its application based problems.</li> </ul>
<b>CH- 14 : Factorisation</b>  <b>( NOVEMBER- DECEMBER )</b>	<ul style="list-style-type: none"> <li>• Factors of natural numbers.</li> <li>• Factors of algebraic expressions.</li> <li>• Method of common factors</li> <li>• Factorisation by regrouping terms</li> <li>• Factorisation using identities.</li> <li>• Factors of the form <math>(x + a)(x + b)</math>.</li> <li>• Division of Algebraic Expressions.</li> <li>• Division of Algebraic Expressions Continued (Polynomial <math>\div</math> Polynomial)</li> </ul>		<ul style="list-style-type: none"> <li>• Factors of natural numbers.</li> <li>• Factors of algebraic expressions.</li> <li>• Method of common factors</li> <li>• Factorisation by regrouping terms</li> <li>• Factorisation using identities.</li> <li>• Factors of the form <math>(x + a)(x + b)</math>.</li> <li>• Division of Algebraic</li> </ul>

			<p>Expressions.</p> <ul style="list-style-type: none"> <li>• Division of Algebraic Expressions</li> </ul> <p>Continued (Polynomial <math>\div</math> Polynomial)</p>
<p><b>CH-15 - INTRODUCTION TO GRAPHS (DELETED)</b></p>	<ul style="list-style-type: none"> <li>• A Bar graph</li> <li>• A Pie graph (or a circle-graph)</li> <li>• A histogram</li> <li>• A line graph</li> <li>• Linear Graphs.</li> <li>• Location of a point</li> <li>• Coordinates.</li> <li>• Application based problems like The relation between dependent variable and independent variable is shown through a graph.</li> </ul>	<ul style="list-style-type: none"> <li>• DELETED</li> <li>• The chapter will be done again in class IX &amp; X.</li> </ul>	
<p><b>CH-16 PLAYING WITH NUMBERS ( DELETED)</b></p>	<ul style="list-style-type: none"> <li>• Numbers in General Form</li> <li>• Games with Numbers</li> <li>• Reversing the 2-digit and 3-digit numbers.</li> <li>• Letters for Digits.</li> </ul>	<ul style="list-style-type: none"> <li>• DELETED</li> <li>It is done in the previous classes VI &amp; ,VII</li> </ul>	

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|  | <ul style="list-style-type: none"><li>• Tests of Divisibility</li></ul> |  |  |
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## Assessment Schedule Term - 1 & Term - 2

### PA-1 :

- Ch-1: Rational Numbers.
- Ch- 2 :Linear Equations In One Variables.

### TERM 1 EXAM

- Ch- 3: Understanding Quadrilaterals.
- Ch-5 - Data handling
- CH- 6: Squares and Square roots.
- CH- 8: Comparing Quantities

### PA - 2:

- CH- 13 : Inverse and Direct Proportion.
- CH- 12 Powers and Exponents

### TERM 2 EXAM

- Ch- 9 : Algebraic Equations and Identities.
- CH-11: Mensurations.
- CH- 14 :Factorisation