



# JINDAL VIDYA MANDIR, JSW HILLSIDE TOWNSHIP

## Syllabus Bifurcation: 2025-26

Subject: Mathematics

Class:VIII

Term: I

Sl No.	Month	WD	ID	No. of Periods	Chapter/Units	Learning Objectives	Activities	Assessment Methods	Portion for WT/PT/Term/AE
1	April	13	13	7	Chapter-1 Rational Numbers.	Define rational Numbers and express in standard form Add subtract, multiply and divide rational numbers State and apply properties involving arithmetic operations of RN	Art integrated working model	Quiz	
				6	Chapter-2 Linear equations in one variable.	Define linear equation Solve linear equations in one variable Use linear equations in real life problem and solve	To find the solution using elimination method	Class test	
2	June	20	20	14	Chapter-3 Understanding quadrilaterals	Define quadrilaterals, parallelogram, rectangles rhombus, square, trapezium isosceles trapezium Verify the properties of quadrilaterals Solve problems involving the properties of these shapes	Angle sum property of Quadrilateral and Polygon	Worksheet	
				6	Chapter - 4 Data Handling	Define data, and methods to collect data enlist the ways to represent data, Interpret the data from the given graph Use bar graph to represent data Define pie chart and to represent data using pie chart	Survey in the class and represent the data using a Pie chart.	Project: Draw a pie chart based on the given data, illustrating a real-life application.	
3	July	25	20	5	Chapter 13 - Introduction to Graph	Define and draw line graph for given data Define a linear graph. Locate the points on Cartesian plane. Identify and apply the knowledge to use line graphs in real life situations.	Time and Distance graph is linear for uniform velocity or Side length and perimeter of a square gives linear graph	Project based on linear graph application	28/07/25 WT 8-Ch-2 and 3

				8	Chapter - 5 Squares and square roots	<p>Explain square numbers with examples</p> <p>State and explain different properties of a square numbers</p> <p>Explain different methods of finding squares of whole numbers and rational numbers</p> <p>Explain the square root of a number with examples.</p> <p>Check whether the number is a square number or not.</p>	Finding squares using diagonal method) or verifying Pythagoras property	Class test	PT-1 Ch-1,2,3,4
				7	Chapter - 6 Cubes and cube roots	<p>Explain cubes and give examples of a cube numbers</p> <p>State and explain the properties of cubes</p> <p>Explain some numerical pattern involving cubes</p> <p>Explain the cube roots of perfect cubes</p> <p>Find out the cube roots of given cubic numbers.</p>	Verify the last 4 digits of a mobile phone is a perfect cube or not/Prepare a number wheel to calculate the cube and cube roots	Quiz	
4	August	20	20	14	Chapter - 7 Comparing Quantities	<p>Explain percentage, ratio</p> <p>Calculate the cost price, selling price, profit loss, profit or loss percentage, recognize overhead charges</p> <p>Explain the relationship between marked price, selling price and discount</p> <p>Recognize and calculate different types of taxes levied in commercial activities.</p> <p>Find simple interest, principal time rate and amount using required facts</p> <p>Find compound interest, Solve the application based problem on compound interest.</p> <p>Explain concept of appreciation and depreciation and calculate the changing values due to inflationary reasons</p> <p>Calculate rise or fall in population in a period</p>	Project on the concept of discount, GST and sale tax for recent item purchased	Class test	30/08/25 Weekly test 13-Data Handling, Square and Square roots

				6	Chapter- 8 Algebraic Expressions	Define and explain Algebraic Expressions Define terms, like and unlike terms, monomials, binomials, trinomials, polynomials, coefficients Classify the terms into their group Perform addition, subtraction and multiplications of polynomials	Deriving Identities and multiplication of Algebraic Expressions using Geometric blocks)		
5	September	20	12	12	Revision- Term I examination				Term I-Ch-1 to Ch-6 and Ch-13

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**Sub I/C**

**VP**

**Principal**



# JINDAL VIDYA MANDIR, JSW HILLSIDE TOWNSHIP

## Syllabus Bifurcation: 2025-26

Subject: Mathematics

Class: VIII

Term: II

SI No	Month	WD	ID	No. of Periods	Chapter/Units	Learning Objectives	Activities	Assessment Methods	Portion for WT/PT/Term/AE
1	October	19	19	10	Chapter-12 Factorization	Derive and explain common algebraic identities Apply identities in solving problems Divide the polynomials and obtain the quotient	To verify algebraic identity $(a+b)^2$ Factorization using paper cutting method	Framing questions and solving them	
				9	Chapter -10 Exponents and Powers	Define and explain the exponents, base and power of the given exponential number. State and apply laws of exponents of whole numbers. Explain RN with exponents as positive and negative integers. Explain reciprocal of an exponential RN with examples of positive and negative integers as exponents State and explain and apply the laws of exponents in RN with examples. Express standard form/scientific notation using exponents	Expressing in the standard form by observing the data collected newspaper	Quiz	

2	November	22	22	13	Chapter - 9 Mensuration	State and explain the formulae for area of trapezium, triangle, quadrilateral Find LSA, TSA of cuboid, cube, cylinder Find the volume of Cuboid, cube and cylinder. Apply the formula for real life situation	Derivation of TSA and Volume for solid shapes.	Class test	WT-7 28/11/25- Comparing Quantities, Algebraic Expression
				9	Chapter - 13 Direct and inverse proportion.	Define Ratio and use ratio in real life application Explain Proportion and recognize its equivalent ratio Use proportion in real life situation Explain direct and inverse proportion used in real life. Identify and apply the use of direct and inverse proportion involving time and work, time and distance etc.	Identifying and listing 5 real life situation on direct and inverse proportion	Class test	
3	December	25	20	20	Revision of Chapter				
4	January	24	19	10	Revision and Mock test			Worksheets	Pt-2- Comparing Quantities, Algebraic Expression, Factorization
	February	18	18	18	Revision and Term II				WT -14- 13/02/26- Mensuration and direct and inverse proportion
5	March				Term II - Examination				Ch-5, (Term I) 7,8,9,10,11,12,13

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VP

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