

# TERM WISE SYLLABUS BREAK-UP (2026-27)

## SUBJECT: MATHEMATICS

### CLASS- VIII

### BOOK FOLLOWED – NCERT

## GANITA PRAKASH TEXTBOOK OF MATHEMATICS FOR GRADE 8 (PART I & II)

### I – TERM (HALF YEARLY EXAMINATION)

CHAPTERS	TOPICS	BOOK PART	
Chapter 1	A Square and A Cube	PART I	<b>FIRST PERIODIC TEST</b>
Chapter 4	Quadrilaterals	PART I	
Chapter 7	Proportional Reasoning – 1	PART I	
Chapter 2	Power Play	PART I	<b>HALF YEARLY EXAMINATION (ALL CHAPTERS MENTIONED IN THIS TABLE)</b>
Chapter 3	A Story of Numbers	PART I	
Chapter 6	We Distribute, Yet things Multiply	PART I	
Chapter 1	Fractions in Disguise	PART II	
Chapter 2	The Baudhayana-Pythagoras Theorem	PART II	

**COMPUTATIONAL THINKING** - A Square and A Cube, Power Play, A Story of Numbers, Quadrilaterals, We Distribute, Yet things Multiply, Proportional Reasoning – 1

### II – TERM (ANNUAL EXAMINATION)

CHAPTERS	TOPICS	BOOK PART	
Chapter 3	Proportional Reasoning – 2	PART II	<b>SECOND PERIODIC TEST</b>
Chapter 4	Exploring Some Geometric Themes	PART II	
Chapter 7	Area	PART II	
Chapter 5	Number Play	PART I	<b>ANNUAL EXAMINATION (ALL CHAPTERS MENTIONED IN THIS TABLE)</b>
Chapter 5	Tales by Dots and Lines	PART II	
Chapter 6	Algebra Play	PART II	

## CHAPTERS AND TOPICS OVERVIEW

<b>PART I</b>			
CHAPTER	TOPIC	SUBTOPIC	NO. OF PERIODS
Chapter 1	A Square and A Cube	Square, numbers, patterns and properties of perfect squares, square root, methods of finding square roots, cubic numbers, patterns and properties of cubic, numbers, taxicab number, cube root, methods of finding cube roots	14 – 15
Chapter 2	Power Play	Exponential notation and operations, laws of exponents, Power lines, powers of 10, scientific notation, linear growth vs exponential growth	10 – 11
Chapter 3	A Story of Numbers	Roman number system, some early number systems, Roman numerals, Egyptian number system, place, value representation, Mesopotamian number system, Mayan number system, Chinese number system, Hindu number system	3 – 4
Chapter 4	Quadrilaterals	Properties of Rectangle and squares, Angles in a quadrilateral, quadrilaterals with parallel opposite sides (parallelogram, rhombus), kite, trapezium	11 – 12
Chapter 5	Number Play	Sum of consecutive numbers, shortcut for divisibility, Digital roots, digits in disguise	7 – 8
Chapter 6	We Distribute, Yet things Multiply	Properties of multiplication, identities, multiplication using the distributive property, special cases of distributive property	8 – 9
Chapter 7	Proportional Reasoning – 1	Ratios, Ratio in their simplest form, word problems, Trairasika - the rule of three, Unit conversions	7 – 8

**PART II**

CHAPTER	TOPIC	SUBTOPIC	NO. OF PERIODS
Chapter 1	Fractions in Disguise	Fractions as percentages, Decimals as percentages, percentage is greater than 100, Using percentages to compare proportions, percentage, increase or decrease, profit and loss, taxes, growth, and compounding	15 – 16
Chapter 2	The Baudhāyana-Pythagoras Theorem	Doubling a square, halving a square, Hypotenuse of an Isosceles right triangle, Decimal representation of square root of two, Pythagoras theorem, Pythagorean triplets, word problems, application of Pythagoras theorem	9 – 10
Chapter 3	Proportional Reasoning – 2	Proportionality, ratios in map, ratios with more than two terms, dividing a whole in a given ratio, a slice of the pie, inverse proportions, direct proportions	10 – 11
Chapter 4	Exploring some Geometric Themes	Fractals, Sierpinski carpet, Koch Snowflake, Fractals in art, visualising solids, prism, pyramids, nets, tetrahedron, cylinder, cone, octahedron, shortest path on a cube, representation of solids on a plane surface, isometric projections	8 – 9
Chapter 5	Tales by Dots and Lines	Unchanging, mean, tinkering with median, finding the unknown, mean and median with frequencies, spreadsheets, line graphs, infographics	10 – 11
Chapter 6	Algebra Play	Think of a number tricks, number, pyramids, fun with grids, algebra grids, the largest product, Decoding, divisibility tricks	8 – 9
Chapter 7	Area	Rectangle and squares, area of path, triangles, triangles between parallel lines with a common base, area of any polygon, parallelogram, rhombus, trapezium, areas in real life	10 – 11