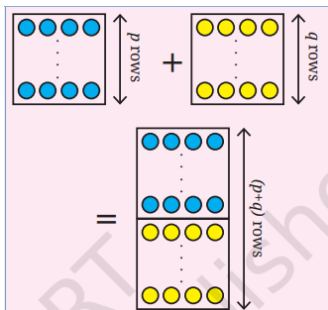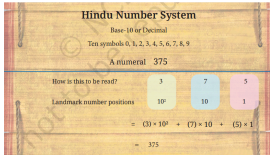**BLOOM PUBLIC SCHOOL**

C-8 Vasant Kunj, New Delhi

Syllabus for the Session 2025-26

Class: VIII

Subject: Mathematics

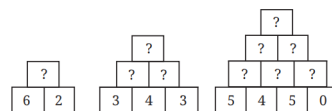| MONTH	CHAPTER (NCERT Text book)	CONTENT (Topics)	Practical/Activities
April	* **Bridge course activity** * **Square and Square Roots**	* Bridge course activities * Square of a number * Square root of a number by prime factorisation & division method *Identities:$(a - b)^2 (a + b)^2$, $a^2 - b^2$.	**https://ncert.nic.in/pdf/Bridge_Programme/Grade8/Bridge_Programme-Mathematics-Grade_8.pdf** **SUBJECT ENRICHMENT ACTIVITY 1:** Prove that $(a + b)^2 = a^2 + b^2 + 2ab$.
May	* **Bridge course activity** * **Linear Equations In One Variable**	* Bridge course activities * Solving linear equations * Framing linear equations	**https://ncert.nic.in/pdf/Bridge_Programme/Grade8/Bridge_Programme-Mathematics-Grade_8.pdf** **SUBJECT ENRICHMENT ACTIVITY 2:** Mystery Number Challenge- Use linear equations to guess a hidden number.
July	* **Algebraic expressions and identity**	* Expressions, terms, factors, coefficients, monomials, binomials, and polynomials * Operations on Algebraic Expressions * Algebraic Identities * Factors of Algebraic Expressions * Factors of Algebraic Expressions * Factorization Using Identities	**PHET (interactive panel)** **Area Model Algebra**

MONTH	CHAPTER (GANITA PRAKASH Text book)	CONTENT (Topics)	Practical/Activities
August	* CH-1 A Square and A Cube * CH-4 Quadrilaterals	* Square of a number * Square root of a number by prime factorisation & division method *Cube of a number * Cube root of a number by prime factorisation.	https://ncert.nic.in/pdf/Bridge_Programme/Grade8/Bridge_Programme-Mathematics-Grade_8.pdf **SUBJECT ENRICHMENT ACTIVITY 3:** Prove that $(a + b)^2 = a^2 + b^2 + 2ab.$
September	**Revision of Mid Term exam**	-	-
October	*CH-5 Number Play *CH- 3 A Story Of Numbers	*Early Counting Systems *The Hindu-Arabic Number System *Importance of Place Value *Creating Your Own Number System *Early Number Systems *exploring numbers, patterns, and relationships between numbers	**SUBJECT ENRICHMENT ACTIVITY 4:** Explanation with Algebra and Visualisation **SUBJECT ENRICHMENT ACTIVITY 8:**
November	*CH- 6 We Distribute, Yet things Multiply *CH- 7 Proportional reasoning *CH-2 Power Play	*distributive property of multiplication over addition * simplify expressions by distributing a factor across a sum *Application in Simplification	**SUBJECT ENRICHMENT ACTIVITY 5:**

		*Observing Similarity in Change. *Ratios *Problem Solving with Proportional Reasoning. *focuses on the concept of exponents and powers * Scientific Notation	 **SUBJECT ENRICHMENT ACTIVITY 6:** **SUBJECT ENRICHMENT ACTIVITY 7:**
DECEMBER	NCERT OLD EDITION https://ncert.nic.in/textbook.php?hemh1=0-16 ***CH-12 Factorisation**	*Identify factors of algebraic expressions Apply methods of factorisation. Simplify and reduce expressions.	**SUBJECT ENRICHMENT ACTIVITY 8:** **SUBJECT ENRICHMENT ACTIVITY 9:**
JANUARY	**Ganita Prakash-Part -II)** ***CH-2 The Baudhayana-Pythagoras Theorem** *** CH-3 Proportional Reasoning-2** ***CH-7 Area**	*The relation between the areas of a square and the square on its diagonal can be used to find a general relation between the hypotenuse and the other two sides of an isosceles right triangle. *To explore proportional relationships between	**SUBJECT ENRICHMENT ACTIVITY 10:** Let a be the length of the equal sides and c the length of the hypotenuse. Area of SQVU = 2 × Area of PQRS So, $c^2 = 2a^2$.

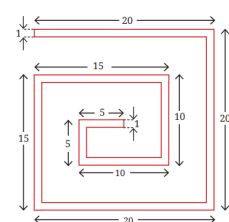|		quantities,using the ratio notation to represent such relationships. When two or more related quantities change by the same factor, we call that relationship a proportional relationship. * To use algebra to model different situations and learn how to solve algebraic equations and find the values of unknown letter-numbers. *To understand the area of a triangle ,the area of any polygon that can be evaluated by breaking it into triangles. Area of a parallelogram ,Area of a rhombus and Area of a trapezium.	**SUBJECT ENRICHMENT ACTIVITY 11:** How do we fill this pyramid? **SUBJECT ENRICHMENT ACTIVITY 12:** Find the area of the spiral tube shown in the figure. The tube has same width throughout.

PERIODIC ASSESSMENT -I

TOPIC: Square and Square Roots

TOPIC: Linear Equations In One Variable

TOPIC: Bridge course activities concepts (Case based questions)

PERIODIC ASSESSMENT -II

TOPIC : CH-5 Number Play

TOPIC:CH- 6 We Distribute, yet Things Multiply

TOPIC: CH-7 Proportional Reasoning.

MID TERM EXAM

TOPIC: Square and Square Roots (NCERT-OLD EDITION)

TOPIC: Linear Equations In One Variable (NCERT-OLD EDITION)

TOPIC: Algebraic expressions and identities (NCERT-OLD EDITION)

TOPIC: CH-1 A Square and A Cube (GANITA PRAKASH)

TOPIC: CH-4 -Quadrilaterals (GANITA PRAKASH)

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FINAL EXAMINATION

<u>Links</u>
</div>

https://ncert.nic.in/textbook.php?hegp1=0-7 **(GANITA PRAKASH)**

https://ncert.nic.in/textbook.php?hegp2=ps-7 **(GANITA PRAKASH-2)**

https://ncert.nic.in/textbook.php?hemh1=0-16 **(NCERT OLD EDITION)**

TOPIC: CH-1 A Square and A Cube (GANITA PRAKASH)

TOPIC: CH-2 Power Play(GANITA PRAKASH)

TOPIC: CH-4 -Quadrilaterals (GANITA PRAKASH)

TOPIC : CH-5 Number Play (GANITA PRAKASH)

TOPIC:CH- 6 We Distribute, yet Things Multiply (GANITA PRAKASH)

TOPIC: CH-7 Proportional Reasoning (GANITA PRAKASH)

TOPIC: CH-12 Factorisation (NCERT OLD EDITION https://ncert.nic.in/textbook.php?hemh1=0-16 **)**

TOPIC: CH-2 The Baudhayana- Pythagoras Theorem   (GANITA PRAKASH-2)
TOPIC: CH-3 Proportional Reasoning-2 (GANITA PRAKASH-2)
TOPIC: CH-7 Area   (GANITA PRAKASH-2)