

Grade 8

Subject: MATHEMATICS

S.No	Month	No. of Working Days	No. of Days	Topic	Sub Topic	Teaching aids/Resources	Classroom teaching Video Link	Activity	Art Integration project	Pedagogy Process/Teaching Strategy	Chapterwise Notes link	Assessment		
1	APRIL	25	Week 1	Chapter 1: A Square and a Cube	Introduction to square numbers, Patterns in square numbers, Finding squares of numbers	DESIGN SAMPLES	https://www.youtube.com/watch?v=wf-BWYmOdTE	DESIGN MAKING	Rangoli / Mandala with Square Numbers	Project method	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	Orals		
			Week 2		6	Cube numbers, Patterns in cube numbers, Relation between square and cube numbers								
			Week 3		5	Square roots , Finding square roots by prime factorisation, Estimation of square roots								
			Week 4		6	Cube roots, Applications of square and cube roots, Practice exercises / activity								
			Week 5	4	Chapter 2: Power Play	Introduction to exponents, Writing numbers in exponential form, Laws of exponents (basic)	NCERT:GANIT PRAKASH,MATHS PARK AND LAB	https://www.youtube.com/watch?v=00nu7D6u2Yw	QUESTION FRAMING	PAPER FOLDING	QUESTION FRAMING	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	worksheet	
2	JUNE		Week 2	Chapter 3 : A story of numbers	Laws of exponents (advanced) , Powers of 10 ,Very large numbers / scientific notation	MATHS PARK	https://www.youtube.com/watch?v=Kbx0bnN6k2k&list=PLID1pFX6sBo1rMnBtNoLclwYcuMMcKqz	NUMBER LINE	NUMBER LINE	ROLE PLAY	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	Activity		
			Week 3		6	Rational numbers , Representation on number line , Properties of rational numbers								
			Week 4		6	Addition and subtraction of rational numbers , Multiplication and division , Word problems								
			Week 5	2	Chapter 4: Quadrilaterals	Introduction to polygons, Sum of interior angles of polygons	MATHS PARK	https://www.youtube.com/watch?v=VxuB7nS3HJQ	MATHS PARK ACTIVITY	ANGLE SUM PROPRTY	ACTIVITY METHOD	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	orals	
3	JULY	27	Week 1	Chapter 5: Number Play	Types of quadrilaterals, Properties of parallelogram									
			Week 2		6	Rectangle, rhombus, square ad Trapezium and isosceles trapezium								
			Week 3		6	Problem solving , Practical constructions / activities								
			Week 4	6	Divisibility rules, Factors and multiples									
			Week 5	5	Prime and composite numbers, HCF and LCM	MATHS PARK	https://www.youtube.com/watch?v=KuGGC4Qa0QE		MARBLE ACTIVITY	ACTIVITY METHOD	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	worksheet		
4	AUGUST	24	Week 1	Chapter 6: We Distribute, Yet Things Multiply	Number patterns , Logical reasoning problems	MATHS LAB	https://www.youtube.com/watch?v=58OHT4bwv5E		SEQUENCE AND SERIES	QUESTIONNAIRE	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	worksheet		
			Week 2		6	Application based problems, Revision and worksheet								
			Week 3		5	Algebraic expressions, Monomials, binomials and polynomials				WORKSHEET AND MATHS LAB				
			Week 4		6	Distributive property , Simplification of expressions								
			Week 5		5+1	REVISION								
5	SEPTEMBER	23	Week 1	TERM 1										
			Week 2		6									
			Week 3		5	Chapter 7: Proportional Reasoning – I	Concepts of ratio and proportion, Unit rate							
			Week 4		5	Direct proportion, Word problems and applications	MATHS LAB	https://www.youtube.com/watch?v=Waz2xF32vE4		Grid Enlargement Drawing (Scaling Art)	LECTURE CUM DEMO	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	orals	
			Week 5		3	Chapter 8: Fractions in Disguise	Introduction to algebraic fractions, Simplification of algebraic fractions		https://www.youtube.com/watch?v=QnVnBjMscml		LECTURE CUM DEMO	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	worksheet	
6	OCTOBER	25	Week 1	Chapter 9: Baudhayana – Pythagoras Theorem	Operations on algebraic fractions	MATHS LAB/NCERT BOOK	https://www.youtube.com/watch?v=AbFjfc dG61Y	MATHS LAB ACTIVITY		ACTIVITY METHOD	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	orals		
			Week 2		6	Statement of the theorem, Proof of the theorem								
			Week 3		6	Converse of the theorem, Applications and problem solving								
			Week 4		DIWALI HOLIDAYS									
			Week 5		DIWALI HOLIDAYS									
7	NOVEMBER	12	Week 1	Chapter 10: Proportional Reasoning – II	Introduction to inverse proportion, Difference between direct and inverse proportion	NCERT:GANIT PRAKASH,MATHS PARK AND LAB	https://www.youtube.com/watch?v=PE3KWAcNvw&list=PLP7z85NoVAwc_SxOxw7gej9UxPUP35ih	WORKSHEET AND MATHS LAB		LECTURE CUM DEMO	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	worksheet		
			Week 2		7	Applications related to speed, time and real-life situations								
			Week 3	7	Chapter 11: Exploring Some Geometric Themes	Angle relationships , Parallel lines and transversals	NCERT:GANIT PRAKASH,MATHS PARK AND LAB		MATHS PARK ACTIVITY		ACTIVITY METHOD	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	orals	
			Week 4	6	Symmetry and geometric patterns, Problem solving and activities									
			Week 5	5+1	Practice sums									
8	DECEMBER	21	Week 1	Chapter 12: Tales by Dots and Lines	Introduction to coordinate geometry , Cartesian plane and axes	MATHS PARK, NCERT TEXT BOOK	https://www.youtube.com/watch?v=80e_ksww0Pg	MATHS PARK ACTIVITY	POLYGONS IN CARTESIAN PLANE	ROLE PLAY	https://drive.google.com/drive/folders/1VMeyEi2NQF8qx5M1ay6e3ubw_shaYRIP?usp=drive_link	worksheet		
			Week 2		6	Plotting points on the coordinate plane, Identifying coordinates of points								

