

Week	Themes	
<b>UNIT 1</b>		
1	Algebra as generalized arithmetic Patterns	Repeating patterns and growing patterns Generalizing a pattern and finding a rule
2	Algebraic terminology, $x$ as a variable Coordinate graphs Multiple representations Identity	Creating coordinate graphs Continuous, discontinuous, and discrete graphs Equivalent expressions
3	Linear functions Order of operation	Interpreting tables, graphs, and equations of quadratic functions Solving for $x$ , the unknown
<b>UNIT 2</b>		
4	Addition and subtraction Equivalence	Counting, Models for addition and subtraction with natural numbers, Addition and subtraction as inverse operations, Word problems involving addition and subtraction
5	Place value, Multiplication and division of whole numbers	Working in the base-10 system Models for multiplication with natural numbers Multiplication & division as inverse operations Models for division with natural numbers Nature of the remainder in division Factors, prime, and composite numbers
	Fractions and decimals	Models of fractions (sets, number line, area, volume). Types of fractions (proper, improper, and mixed number). Decimals as fractions linked to base-10 place value. Concept of GCF and LCM. Operations with fractions and decimals
	Per cent Ratios and proportion Rates	Per cent as related to fractions and decimals Ratio and proportion Rates
	Integers	Integers, operations with integers Venn diagrams
<b>UNIT 3: GEOMETRY AND GEOMETRIC MEASUREMENT</b>		
	Mid Term	
0	Polygons	Characteristics of polygons with an



	emphasis on triangles and quadrilaterals Benchmark angles
Undefined terms in geometry Identification and construction of angles	Point, line, line segment, and ray Models of angles Classifying angles by measurement Tessellations
2 Geometric measurement, Area and perimeter of polygons and irregular shapes	Perimeter and area formulae
3 Geometric measurement, Circumference and area of circles, Surface area of cuboids and cylinders	Circumference and area formulae Surface area formulae
4 Volume of cuboids and cylinders Introduction to the Pythagorean theorem	Volume formulae, Squares, square numbers, and square roots (surds) The Pythagorean theorem

#### **UNIT 4: INFORMATION HANDLING**

Graphic displays of information • Public announcements • News broadcasts	Collect and organize data via tally marks, pictographs, line plots, bar graphs, and line graphs (discrete and continuous) Interpret these graphic displays of data
Measures and central tendency	Range Mean Median Mode
Revision of course	
Final Term Assessment	