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| <p><u>Number and Algebra</u> <i>Number and Place Value</i></p> <ul style="list-style-type: none"> • Basic operations • Multiples, factors and primes • Estimating, rounding and ordering • Indices and Laws, index notation • Square and square roots • Positive and negative numbers <p style="text-align: center;"><i>4 week unit</i></p> <p><u>Number and Algebra</u> <i>Real Numbers (Fractions)</i></p> <ul style="list-style-type: none"> • Compare fractions using equivalence • Multiplication and division of fractions • Addition and subtraction of fractions • Express one quantity as a fraction of another <p style="text-align: center;"><i>3 week unit</i></p> | <p><u>Number and Algebra</u> <i>Real Numbers (Decimals, Percentage and Ratio)</i></p> <ul style="list-style-type: none"> • Decimal ordering and rounding • Fraction, decimal and percentage conversions • Percentages of quantities • Simple ratios <p style="text-align: center;"><i>3 week unit</i></p> <p><u>Number and Algebra</u> <i>Money and Financial Mathematics</i></p> <ul style="list-style-type: none"> • Investigate and calculate 'best buys', with and without digital technologies <p style="text-align: center;"><i>2 week unit</i></p> <p><u>Measurement and Geometry</u> <i>Using units of Measurement</i></p> <ul style="list-style-type: none"> • Metric units, conversions and applications • Area formulas of rectangles, triangles and parallelograms • Volume of rectangular prisms <p style="text-align: center;"><i>3 week unit</i></p> | <p><u>Number and Algebra</u> <i>Patterns and Algebra</i></p> <ul style="list-style-type: none"> • Introduce the concept of variables • Create algebraic expressions and substitution • Apply the laws and properties of arithmetic to algebraic terms and expressions <p style="text-align: center;"><i>3 week unit</i></p> <p><u>Number and Algebra</u> <i>Linear and Non-linear relationships</i></p> <ul style="list-style-type: none"> • Plot points on a Cartesian plane • Solve simple Linear equations • Investigate, interpret and analyse graphs from authentic data <p style="text-align: center;"><i>3 week unit</i></p> <p><u>Measurement and Geometry</u> <i>Shape, Location and Transformation</i></p> <ul style="list-style-type: none"> • Draw views of prisms and solids formed from combination of prisms • Reflections, translations and rotations on the Cartesian plane • Identify line and rotational symmetries <p style="text-align: center;"><i>3 week unit</i></p> | <p><u>Measurement and Geometry</u> <i>Geometric reasoning</i></p> <ul style="list-style-type: none"> • Corresponding, alternate and co-interior angles • Parallel lines • Classification and properties of triangles and quadrilaterals • Angle sum in triangles and quadrilaterals <p style="text-align: center;"><i>3 week unit</i></p> <p><u>Statistics and Probability</u> <i>Data Representation and Interpretation</i></p> <ul style="list-style-type: none"> • Data collection from primary and secondary sources • Stem-and-leaf and dot plots • Calculate mean, median and mode of data • Interpreting data using mean, median and range. <p style="text-align: center;"><i>3 week unit</i></p> <p><u>Statistics and Probability</u> <i>Chance</i></p> <ul style="list-style-type: none"> • Two chance outcome where the number of outcomes is equally likely • Assign probabilities of events and determine probabilities of events <p style="text-align: center;"><i>2 week unit</i></p> |



| Chapter 1 Whole numbers | Chapter 2 Integers (*headstart 2012) | Chapter 3 Fractions | Chapter 4 Decimals, percentages and ratios | Chapter 5 Algebra |
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| <ul style="list-style-type: none"> • Mental strategies • Indices • More strategies for multiplication and division • Estimating and rounding • Order of operations • Mixed whole number problems | <ul style="list-style-type: none"> • Multiples, factors and divisibility • Primes and composites • Prime factors • Introduction to integers • Adding and subtracting negative numbers • Simplifying addition and subtraction | <ul style="list-style-type: none"> • Understanding fractions • Working with fractions • Estimating and comparing fractions • Adding and subtracting fractions • Multiplying fractions • Dividing fractions • Mixed fraction problems | <ul style="list-style-type: none"> • Place value and comparing decimals • Rounding decimals • Decimals and fractions • Decimal addition and subtraction • Decimal division • Percentages, fractions and decimals • Using percentages • Ratio • Rates | <ul style="list-style-type: none"> • Pronumerals and variables • Terms expressions and equations • Using rules • Formulas and substitution • Patterns and rules • Simplifying expressions with addition and subtraction • The Cartesian plane • Patterns and plotting points • Interpreting graphs |
| Chapter 6 Measurement | Chapter 7 Linear equations | Chapter 8 Angles and shapes | Chapter 9 Statistics and Probability | Chapter 10 Transformation and visualisation |
| <ul style="list-style-type: none"> • Units of length • Perimeter • Area • Area of parallelogram • Area of triangles and composite shapes • Volume | <ul style="list-style-type: none"> • Number sequences • Introduction equations • Solving equations using back tracking • Solving equations using balance method • Solving problems with equations | <ul style="list-style-type: none"> • Measuring, estimating and drawing angles • Classifying and naming angles • Angles and parallel lines • Polygons • Triangles • Quadrilaterals • Compass instructions | <ul style="list-style-type: none"> • Collecting data • Measures of centre • Graphing univariate data • Comparing parts of the whole with graphs • Graphing bivariate data • Comparing data sets • Probability and sample space | <ul style="list-style-type: none"> • Translations • Reflections • Rotations • Combined transformations • Symmetry • Drawing & visualising 3D shapes • Plan views and elevations |