



Topic	Learning Objectives	Key Vocabulary	Learning Sequence	Linked Learning	Home Learning
Number	Order positive and negative integers, decimals and fractions  Use inequality and equality symbols correctly  Recognise and use relationships between operations including inverses  Calculate with roots and integer indices  Calculate with compound measures  Round numbers to use in estimation calculations	Integer Digit Remainder Operation Inverse Multiple Prime Square Cube	Order positive and negative integers, decimals and fractions  Use inequality and equality symbols correctly  Recognise and use relationships between operations including inverses  Calculate with roots and integer indices  Calculate with compound measures  Round numbers to use in estimation calculations	Appreciation of place value and recognise even and odd numbers  Knowledge of using four operations with whole numbers  Knowledge of complements to 10 and to 100  Knowledge of strategies for multiplying and dividing whole numbers by 2,4,5 and 10  Read and write decimals in figures and words	There will be a written piece of homework each week to asses learning.  Videos and additional work can be accessed via <a href="http://www.corbettmaths.com">www.corbettmaths.com</a>  <a href="http://www.keshmaths.org.uk">www.keshmaths.org.uk</a>
Algebra	Use and interpret algebraic notation  Substitute numerical values into formulae and expressions  Simplify and manipulate algebraic expressions  Know the difference between equation and identity  Argue mathematically	Expression Identity Equation Formula Term Index Power factorise	Use and interpret algebraic notation  Substitute numerical values into formulae and expressions  Simplify and manipulate algebraic expressions  Know the difference between equation and identity  Argue mathematically	Ability to use negative numbers with the four operations and recall and use hierarchy of operations and understand inverse operations  Deal with decimals and negative on a calculator  Use index laws numerically	There will be a written piece of homework each week to asses learning.  Videos and additional work can be accessed via <a href="http://www.corbettmaths.com">www.corbettmaths.com</a>  <a href="http://www.keshmaths.org.uk">www.keshmaths.org.uk</a>



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<p>Graphs tables and charts</p>	<p>Complete standard constructions using a ruler, compass and protractor</p> <p>Use standard units of measure</p> <p>Interpret and construct tables, charts and diagrams</p> <p>Interpret, analyse and compare distributions of data sets</p> <p>Apply statistics to describe a population</p> <p>Use and interpret scatter graphs of bivariate data.</p>	<p>Continuous</p> <p>Qualitative</p> <p>Quantitative</p> <p>Correlation</p> <p>Line of best fit</p> <p>Sample</p> <p>Population</p> <p>Stem and leaf</p> <p>Frequency</p> <p>Sort</p> <p>estimate</p>	<p>Design and use data collection sheets including the use of inequalities</p> <p>Use correct notation for time and work out time taken for a journey from a table</p> <p>Construct tables for time series data</p> <p>Design and use two-way tables for discrete and grouped data</p> <p>Calculate the total frequency from a frequency table</p> <p>Identify mode / modal class from a frequency table</p> <p>Construct stem and leaf diagrams</p> <p>Construct, interpret and draw pie charts</p> <p>Construct, interpret and draw stem and leaf diagrams.</p>	<p>Read scales on graphs, draw circles, measure angles and plot coordinates in all four quadrants</p> <p>Know simple angle rules</p> <p>Be fluent with tally charts</p> <p>Use inequality notation</p> <p>Find the midpoint of two numbers</p> <p>Use the correct notation for time using 12 and 24hr clocks</p>	<p>There will be a written piece of homework each week to assess learning.</p> <p>Videos and additional work can be accessed via <a href="http://www.corbettmaths.com">www.corbettmaths.com</a></p> <p><a href="http://www.keshmaths.org.uk">www.keshmaths.org.uk</a></p>



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Fractions, Decimals and Percentages	<p>Order positive and negative integers, decimals and fractions</p> <p>Apply the four operations to integers, decimals and simple fractions and mixed numbers</p> <p>Calculate exactly with fractions</p> <p>Work interchangeably with terminating decimals and their corresponding fractions</p> <p>Interpret fractions and percentages as operators</p> <p>Use standard units of mass length, time and money</p> <p>Express one quantity as a fraction of another</p> <p>Define percentage as number of parts per hundred</p> <p>Solve problems involving percentage change, increase / decrease and simple interest including in financial mathematics</p>	<p>Inverse</p> <p>Mixed</p> <p>Improper</p> <p>Recurring</p> <p>Integer</p> <p>Terminating</p> <p>Percentage</p> <p>VAT</p> <p>Increase</p> <p>Decrease</p> <p>Multiplier</p> <p>Profit</p> <p>Loss</p>	<p>Order positive and negative integers, decimals and fractions</p> <p>Apply the four operations to integers, decimals and simple fractions and mixed numbers</p> <p>Calculate exactly with fractions</p> <p>Work interchangeably with terminating decimals and their corresponding fractions</p> <p>Interpret fractions and percentages as operators</p> <p>Use standard units of mass length, time and money</p> <p>Express one quantity as a fraction of another</p> <p>Define percentage as number of parts per hundred</p> <p>Solve problems involving percentage change, increase / decrease and simple interest including in financial mathematics</p>	<p>Be able to use the four operations of number</p> <p>Be able to find common factors</p> <p>Have a basic understanding of fractions as being parts of a whole</p> <p>Be able to define percentages as number of parts per hundred</p> <p>Know number complements to 10 and multiplication tables</p>	<p>There will be a written piece of homework each week to assess learning.</p> <p>Videos and additional work can be accessed via <a href="http://www.corbettmaths.com">www.corbettmaths.com</a></p> <p><a href="http://www.keshmaths.org.uk">www.keshmaths.org.uk</a></p>



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<p>Equations, Inequalities and Sequences</p>	<p>Apply and interpret limits of accuracy</p> <p>Substitute numerical values into formulae and expressions</p> <p>Understand and use the concepts and vocabulary of expressions, equations, formulae, identities, inequalities, terms and factors</p> <p>Understand and use standard mathematical formulae, rearranging formulae to change the subject</p> <p>Solve linear equations in one unknown algebraically, find approximate solutions on a graph</p> <p>Translate simple situations or procedures into algebraic expressions or formulae</p> <p>Solve linear inequalities in one variable, represent the solution set on a number line</p> <p>Generate terms of a sequence from either a term-to-term or a position-to-term rule</p> <p>Recognise and use sequences of triangular, square and cube number, simple arithmetic progressions, Fibonacci type sequences and simple geometric progressions</p> <p>Deduce expressions to calculate the nth term of linear sequences</p>	<p>Arithmetic</p> <p>Geometric</p> <p>Function</p> <p>Sequence</p> <p>Nth term</p> <p>Derive</p> <p>Quadratic</p> <p>Inequality</p> <p>Represent</p> <p>Substitute</p> <p>Expand</p> <p>Linear</p>	<p>Apply and interpret limits of accuracy</p> <p>Substitute numerical values into formulae and expressions</p> <p>Understand and use the concepts and vocabulary of expressions, equations, formulae, identities, inequalities, terms and factors</p> <p>Understand and use standard mathematical formulae, rearranging formulae to change the subject</p> <p>Solve linear equations in one unknown algebraically, find approximate solutions on a graph</p> <p>Translate simple situations or procedures into algebraic expressions or formulae</p> <p>Solve linear inequalities in one variable, represent the solution set on a number line</p> <p>Generate terms of a sequence from either a term-to-term or a position-to-term rule</p> <p>Recognise and use sequences of triangular, square and cube number, simple arithmetic progressions, Fibonacci type sequences and simple geometric progressions</p> <p>Deduce expressions to calculate the nth term of linear sequences</p>	<p>Be able to use inequality signs between number</p> <p>Be able to use negative numbers with the four operations, recall and use the hierarchy of operations and understand inverse operations</p> <p>Deal with decimals and negatives on a calculator</p> <p>Use index laws numerically</p> <p>Be able to draw a number line</p>	<p>There will be a written piece of homework each week to assess learning.</p> <p>Videos and additional work can be accessed via <a href="http://www.corbettmaths.com">www.corbettmaths.com</a></p> <p><a href="http://www.keshmaths.org.uk">www.keshmaths.org.uk</a></p>