

Mathematics: Key Stage 3 OVERVIEW

Term 1	Term 2	Term 3
<p><i>Basic number skills</i></p> <ul style="list-style-type: none"> • Number properties • Rounding • Directed number • Four operations 	<p><i>Substitution and formulae</i></p> <ul style="list-style-type: none"> • Substitution into formulae • Expressions with brackets/indices • Changing the subject of a formula 	<p><i>Algebraic graphs</i></p> <ul style="list-style-type: none"> • Coordinates • Linear graphs, identifying and drawing • Gradient • $Y=mx+c$
<p><i>Shape properties</i></p> <ul style="list-style-type: none"> • Properties of 2D and 3D shapes • Estimating and measuring angles • Angle facts • Circumference and perimeter 	<p><i>Area, volume and construction</i></p> <ul style="list-style-type: none"> • Calculating area and volume • Surface area of prisms • Nets • Area of circles and compound shapes • Construct angles and triangles 	<p><i>Averages</i></p> <ul style="list-style-type: none"> • Find mean, median, mode and range • Choose appropriate average • Frequency tables • Stem and leaf diagrams
<p><i>Fractions, decimals, percentages</i></p> <ul style="list-style-type: none"> • Converting between fractions, decimals and percentages • Four operations 	<p><i>Measures</i></p> <ul style="list-style-type: none"> • Using time • Converting between metric units • Basic understanding of imperial conversions 	<p><i>Transformations and congruency</i></p> <ul style="list-style-type: none"> • Symmetry • Reflect, rotate, enlarge and translate • Construct congruent shapes • Similarity
<p><i>Expressions and equations</i></p> <ul style="list-style-type: none"> • Simplifying expressions • Expanding brackets • Forming and solving equations 	<p><i>Sequences</i></p> <ul style="list-style-type: none"> • Generating sequences • Find the nth term of linear sequences • Arithmetic, geometric and quadratic sequences 	<p><i>Graphs and charts</i></p> <ul style="list-style-type: none"> • Read and draw a range of charts • Interpret data shown in charts • Discrete and continuous data • Compare data in different charts • Solve problems using charts
<p><i>Probability</i></p> <ul style="list-style-type: none"> • Probability scales • Calculating with probabilities • Experimental and theoretical probability • Frequency trees • Venn Diagrams 	<p><i>Ratio and proportion</i></p> <ul style="list-style-type: none"> • Simplifying and scaling ratios • Recipes • Conversion graphs • Proportion problems • Unitary ratios • Solving ratio problems 	