

Mathematics

Autumn Term	Spring Term	Summer Term	Skills/Assessment
<p>Data: Probability; two-way tables; space diagrams; Venn diagrams; probability trees</p> <p>Shapes: Pythagoras; trigonometry; 2D and 3D shapes; constructions; congruency</p> <p>Number: Ratio; proportion; percentages; compound measures; inverse proportions</p>	<p>Algebra: Expanding; factorising; quadratic expressions</p> <p>Shapes: Loci; bearings, circles; sectors; arcs; volume and surface area; similarity; congruence; vectors</p> <p>Number: Ratio; proportion; fractions; indices; standard form</p>	<p>Revision: Recap on gaps in knowledge</p> <p>Past papers (weekly)</p> <p>KESH Mathematics papers</p> <p>After school revision classes</p>	<p>Past papers</p> <p>Functional Skills Entry Level (1,2,3)</p> <p>Functional Skills Level 1 and 2</p> <p>GCSEs</p>
<p>Number: BIDMAS; rounding; decimals; significant figures; roots; powers; surds; prime factors; fractions; simplifying; fractions; decimals and percentages</p> <p>Algebra: Notation; index laws; substitution; expand and factorise</p> <p>Data: Two-way tables; bar charts; pie charts; scatter graphs</p>	<p>Algebra: Inverse; solving; inequalities; change subject; sequences; nth term</p> <p>Shapes: Quadrilaterals; angle properties; parallel lines</p> <p>Data: Frequency tables; averages; sampling</p>	<p>Algebra: Midpoints; $y = mx + c$; graphs</p> <p>Shapes: Perimeter and area; conversions; volume; surface area; transformations</p> <p>Number: Ratio; proportion</p>	<p>End of topic skills assessment</p> <p>Functional Skills Entry Level (1,2,3)</p> <p>Functional Skills Level 1 and 2</p>
<p>Algebra: Like terms; expanding; inequalities; errors and bounds; sequences; conversion graphs; line graphs; real life graphs</p> <p>Number: Factor trees; HCF/LCM; rounding and estimation; place value</p> <p>Shape: Scales; constructions; bearings</p>	<p>Algebra: Indices; brackets; estimation; standard form; straight line graphs; simultaneous equations</p> <p>Data: Types of data; stem and leaf; questionnaires</p> <p>Shape: Circles; trigonometry; cylinders; conversion; upper and lower bounds</p>	<p>Data: Probability; bias; sample space diagrams; two-way tables; Venn diagrams</p> <p>Shape: Congruency; similarity; Pythagoras; trigonometry</p>	<p>End of topic skills assessments</p> <p>Assessments on accumulated skills</p> <p>Functional Skills Entry Level (1,2,3)</p>
<p>Number: Calculations; divisibility; powers and roots, brackets</p> <p>Shape: Area and volume; 2D as 3D shapes; measures</p> <p>Data: Comparing data; misleading graphs</p>	<p>Data: Understanding and interpreting real life graphs</p> <p>Number: Understanding and using decimals; use of ratios</p> <p>Shapes: Quadrilaterals; parallel lines; angles</p>	<p>Data: Straight line graphs</p> <p>Number: 4 operations with fractions; percentages decimals and fractions</p> <p>Algebra: Expressions and brackets; one step and 2 step equations</p>	<p>End of topic skills assessments</p> <p>Assessments on accumulated skills</p>
<p>Number: Calculations; four rules; negative and positive numbers; BIDMAS; primes; estimating and rounding</p> <p>Data: Probability; expected outcomes; experimental probability</p> <p>Algebra: BIDMAS; function machines; expressions and formulae</p>	<p>Data: Averages; line graphs</p> <p>Number: Decimals and rounding; length and mass; Significant figures; scales and measure; fractions; percentages</p> <p>Shapes: Area and perimeter</p>	<p>Shapes: Compound shapes; trapeziums and parallelograms; angles; quadrilaterals; parallel lines</p> <p>Number: Ratios; proportion</p> <p>Data: Stem and leaf; scatter graphs</p>	<p>End of topic skills assessments</p> <p>Assessments on accumulated skills</p>

Year 11

Year 10

Year 9

Year 8

Year 7