



Mathematics Year 11 Foundation IGCSE	
Edexcel 9 - 1	
Term	Curriculum outline
1	<p>Students will ~</p> <ul style="list-style-type: none"> • RECAP ON NUMBERS: Place value; special numbers and powers; fractions; decimals; percentages. • ARITHMETIC OF FRACTIONS: Use common denominators to add and subtract fractions and mixed numbers; understand and use fraction as multiplicative inverses; multiply and divide fraction and mixed numbers. • RECAP ON ALGEBRA: Solving equations; simplifying expressions; plotting equations on a graph; expanding and factorising expressions. • QUADRATIC EQUATIONS AND GRAPHS: expand the product of two simple linear expressions; understand the concept of a quadratic expressions and be able to factorise such expressions (limited to $x^2 + bx + c$); solve quadratic equation by factorisation (limited to $x^2 + bx + c = 0$); recognise, generate points and plot graphs quadratic functions.
2	<p>Students will ~</p> <ul style="list-style-type: none"> • SET LANGUAGE, NOTATION AND VENN DIAGRAMS: Understand the definition of a set; use the set notation; understand the concept of the universal set and the empty set and the symbols for these sets; understand and use the complement of a set; use Venn diagrams to represent sets; find probabilities from a Venn diagram. • INDICES AND STANDARD FORM: Use index notation and index laws for multiplication and division of positive and negative integer powers including zero; calculate with and interpret numbers in the form $a \times 10^n$ where n is an integer and $1 \leq a < 10$
3	<p>Students will ~</p> <ul style="list-style-type: none"> • RECAP ON MEASURES, BEARINGS AND SCALE DRAWINGS • RECAP ON INTERIOR AND EXTERIOR ANGLES OF POLYGONS • SIMILARITY AND CONGRUENCE IN 2D SHAPES: Understand congruence as meaning the same shape and size; understand that two or more polygons with the same shape and size are said to be congruent to each other; understand and use the geometrical properties that similar figures have corresponding lengths in the same ratio but corresponding angles remain unchanged.
4	<p>Students will ~</p> <ul style="list-style-type: none"> • RECAP ON STATISTICAL MEASURES: • RECAP ON ALGEBRA • SIMULTANEOUS EQUATIONS: Calculate the exact solution of two simultaneous equations in two unknowns.



5	Students will ~ <ul style="list-style-type: none">• REVISION FOR IGCSE EXAM
6	Students will ~ <ul style="list-style-type: none">• REVISION FOR IGCSE EXAM



	Additional Science Year 11
Term	Curriculum outline
Autumn 1	<p>P2 Physics</p> <p>Motion</p> <p>Forces</p> <p>Work, Energy and Momentum</p> <p>Current and Mains Electricity</p> <p>Radioactivity</p> <p>Energy from the Nucleus</p>
Autumn 2	<p>B2 Biology</p> <p>Revision for Mock exam</p> <p>Cells, tissues and organs</p> <p>Organisms and the Environment</p> <p>Enzymes</p> <p>Energy from Respiration</p> <p>Inheritance in Plants and Animals</p> <p>Old and New Species</p>
Spring 1	<p>C2 Chemistry</p> <p>Rates and Energy</p> <p>Salts and Electrolysis</p>



Spring 2	C2 Chemistry Structure and Bonding Structure and Properties of ionic and covalent substances Chemical equations, calculations and analysis
Summer 1	Revision and Exams
Summer 2	