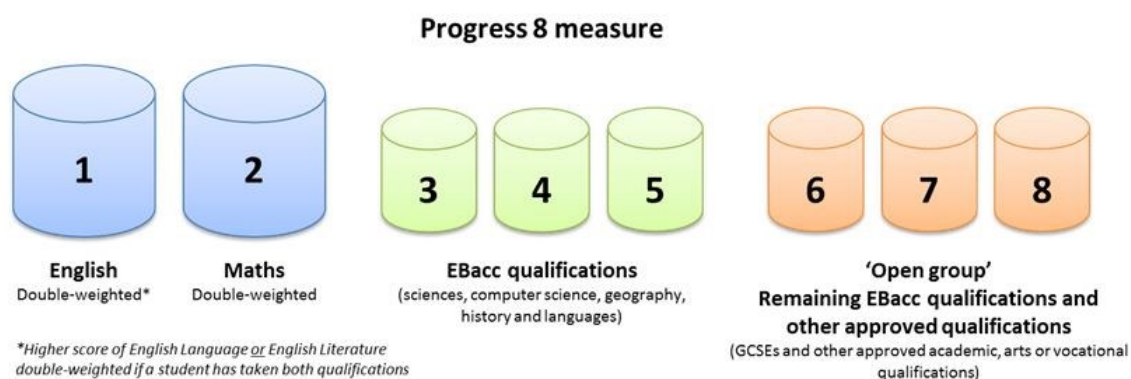


This document provides an overview of the Year 7-9 curriculum, topic by topic per subject. It has been organised into: 'CORE' & 'Ebacc' and 'Open' subjects so that parents can see how the school is preparing their children for Key Stage 4. The overview for Maths is in its own section at the end of this document.

The diagram below provides an overview of the government's expectations for Year 10 & 11 students.



Michaelmas first half-term

CORE & Ebacc subjects at GCSE

	Year 7	Year 8	Year 9
English	Poetry analysis	Poetry analysis and comparison	Poetry analysis and comparison – unseen poetry
Science	Skills	Skills	9i: Atoms & bonding 9x: Cells
Geography	Maps & mapping	Urbanisation	Natural resources
German	Personal Identification	Holidays (past tense)	GCSE Foundation Introduction: Me, myself and friends
History	Key skills	The Tudors	World War 1
Philosophy & Ethics	How did the world begin?	Who am I?	How can we all live together?

Open subjects at GCSE

Art	Colour	Research skills	Printing
Design Technology	Plastics	Manufactured boards	Mechanisms
Drama	Characterisation	Superheroes	Practioner exploration
PE	Basketball; Football Netball; Dance	Basketball; Football Netball; Dance	Basketball; Football Netball; HRE
Music	African music - rhythms	Blues & Jazz - chords	Reggae – chords

Michaelmas second half-term

Core & Ebacc subjects at GCSE

	Year 7	Year 8	Year 9
English	19 th century text extracts	19 th century short stories	19 th century novel; e.g. A Christmas Carol, Jekyll and Hyde
Science	Forces or organisms	Reactions or energy	9i: Cells 9x: Atoms & bonding
Geography	A plan of Walters Room	Manchester's story	Water around the world
German	School (expressing likes & dislikes)	Holidays (past tense)	Technology in everyday life
History	Norman Conquest	17 th Century	World War 1
Philosophy & Ethics	Will the world end and how?	Love your neighbour?	Are religion and science in conflict?

Open subjects at GCSE

Art	Line	Visual references	Printing
Design Technology	Thermoplastics	Finishing techniques	Cam toys
Drama	Darkwood Manor	Script work	Devising skills through text
PE	Volleyball; rugby Tag rugby; HRE	Volleyball; rugby Tag rugby; HRE	Volleyball; rugby Tag rugby; volleyball
Music	Medieval - pitch	Baroque music	Rap music - sequencing

Maths

At Ixworth Free School we have devised a spiral curriculum in mathematics. In a spiral curriculum, learning is spread out over time rather than being concentrated in shorter periods. In a spiral curriculum, material is revisited repeatedly over months and across year groups. This spiralling approach is effective with all learners as it allows them to deepen their understanding of each topic over time. The regular re-visiting of familiar topics aids recall as well as mastery.

In the table below, topics have been emboldened and listed on the left-hand side. On the right-hand side parents can see how these topics are made more challenging over time.

The table below also refers to 'levels'; these are GCSE levels (grades) and relate directly to the new GCSE specification.

Year 7-9 curriculum Overview; Michaelmas Term 2017

Michaelmas first half-term (Years 7-9)

	Levels 1 to 3	Levels 2 to 4	Levels 3 to 5	Levels 4 to 6+
Factors, Multiples and Surds (N4, N5, N6 and N8)	Finding Factors and Multiples of a Number Identify Prime Numbers	Find the Highest Common Factor and Lowest Common Multiple Find a Prime Factorisation	Find HCF, LCM or 3 numbers Finding a Square /Cube root using the prime factorisation	Simplifying a Surd using a factor Tree Multiplying and Dividing Surds Use Pi in Exact calculations
Substitution (A1, A2, A5, A6 and A7)	Language of Algebra Substitute Positive whole numbers	Substitute Negative numbers and Fractions	Substitute irrational numbers Change the subject of a formula (linear)	Quadratic Formula Change the subject of a formula (non-linear)
Graphs (A8, A9, A10, A12)	Plot Coordinates in all 4 quadrants Plot lines parallel to the axis	Plot the graph of a linear equation Identify the equation of a straight line from its graph	Plot the Graph of a Quadratic Equation Find the equation of a line given 2 points	Solution from a Quadratic Plot the Graph of a Cubic Equation of a Perpendicular Line at a given point
Sequences (A23, A24 and A25)	Continue a sequence Describe a sequence using a term to term rule	Find the nth term of a linear sequence Use the nth term to generate a sequence and solve problems	Find and use the nth term of a decreasing linear sequence Continue a non-linear sequence	Find the nth term of a Quadratic Sequence Solve problems with non-linear sequences

Michaelmas second half-term (Years 7-9)

	Levels 1 to 3	Levels 2 to 4	Levels 3 to 5	Levels 4 to 6+
Proportion (R10, R11, R12, R13 and R14)	Recipe Questions where scale factors are whole numbers Simple best buy questions	Proportion problems such as Recipes and Best Buys Changing units Currency Conversions Conversion Graphs	Direct Proportion using formal algebraic methodology	Inverse Proportion using formal algebraic methodology Identify the graphs of Direct and Indirect proportionality
Ratios (R3, R4, R5, R6, R7 and R8)	Simplify a ratio Simplify a Fraction	Share an amount in a given ratio Convert a Ratio into a Fraction	Problem solving using ratios	Use Ratios to solve Vector Geometry Problems
Percentages (N12, R16 and R9)	Find Simple Percentages of an amount with or without a calculator	Percentage Increase/ Decrease Percentage Change Percentage out of an Amount	Compound Interest and Depreciation	Reverse Percentages Including Iteration
Area and Perimeter (G16, G17 and G18)	Area and Perimeter of a Square, Triangle, Parallelogram or Kite Compound Area	Area of a Trapezium, Circle Circumference Problem solving area questions	Area of a Sector Length of an Arc	Area of a triangle using trigonometry Area of a Segment