

Mathematics Key Stage 4 Units at Cotswold Chine School

Students starting the NEW two year course.

Term	Unit Title	Duration
Autumn 1 st Half	<p>GCSE-AQA -8300</p> <p>1. Calculations 1 Place value, Rounding, Adding and subtracting, Multiplying and dividing.</p> <p>2. Expressions Terms and expressions, Simplifying expressions, Indices, Expanding and factorising 1</p> <p>3. Angles and polygons Angles and lines, Triangles and quadrilaterals, Congruence and similarity, Polygon angles</p> <p>Assessment ELC -AQA -5903 – Unit 1 Properties of numbers</p>	<p>24 hours</p> <p>8 weeks</p>
Autumn 2nd Half	<p>GCSE-AQA –8300</p> <p>4. Handling data 1 Sampling, Organising data, representing data 1, Representing data 2, Averages and spread 1</p> <p>5. Fractions, decimals and percentages Decimals and fractions, Fractions and percentages, Calculations with fractions, Fractions, decimals and percentages Life skills – The business plan Assessment – Revision- past papers ‘Mocks’ ELC -AQA – 5903 – Unit 1 Properties of numbers</p>	<p>21 hours</p> <p>7 weeks</p>
Spring 1 st Half	<p>GCSE-AQA – 8300</p> <p>6. Formulae and functions Substituting into formulae, using standard formulae, Equations, identities and functions, Expanding and factorising 2,</p> <p>7. Working in 2D Measuring lengths and angles, Area of a 2D shape, Transformations 1, Transformations 2 Assessment – Revision- past papers ELC – AQA – 5903 – Unit 2 – 4 operations</p>	<p>18 hours</p> <p>6 weeks</p>
Spring 2 nd Half	<p>GCSE-AQA – 8300</p> <p>8. Probability Probability experiments, Expected outcomes, Theoretical probability, Mutually exclusive events</p> <p>9. Measures and accuracy Estimation and approximation, Calculator methods, Measures and accuracy. Assessment – Revision- past papers ELC -AQA –5903 – Unit 2 – 4 operations</p>	<p>15 hours</p> <p>5 weeks</p>

Summer 1 st Half	GCSE-AQA –8300 10. Equations and inequalities Solving linear equations 1, Solving linear equations 2, Quadratic equations, Simultaneous equations, Inequalities Assessment – Revision- past papers Life skills 2 Starting the business ELC -AQA – Unit 3 Ratio	18 hours 6 weeks
Summer 2 nd Half	GCSE -AQA –8300 11. Circles and constructions Circles 1, Circles 2, Constructions, Loci Assessment – Revision- past papers 12. Ratio and proportion Proportion, Ratio and scales, Percentage change 13. Factors, powers and roots Factors and multiples, Prime factor decomposition, Powers and roots Assessment – mock papers. ELC -AQA – Unit 4 Money	21 hours 7 weeks

Year 11

Term	Unit Title	Duration
Autumn 1 st Half	GCSE -AQA -8300 14. Graphs 1 Drawing straight-line graphs, Equation of a straight line, Kinematic graphs Assessment 15. Working in 3D 3D shapes, Volume of a prism, Volume and surface area Life Skills 3 – getting ready Assessments – mock paper ELC -AQA – Unit 5 The calendar and time	24 hours 8 weeks
Autumn 2 nd Half	GCSE -AQA –8300 16. Handling data 2 Frequency diagrams, Averages and spread 2, Scatter graphs and correlation, Time series 17. Calculations 2 Calculating with roots and indices, Exact calculations, Standard form 18. Graphs 2 Properties of quadratic functions, Sketching functions, Real-life graphs, Assessment – Revision- past papers, ELC -AQA – Unit 6 – measures	21 hours 7 weeks
Spring 1 st Half	GCSE-AQA – 8300 19. Pythagoras and trigonometry Pythagoras' theorem, Trigonometry 1, Trigonometry 2, Vectors 20. Combined events Sets, Possibility spaces, Tree diagrams	18 hours 6 weeks

	Life Skills – The launch party Assessment and mock papers ELC – AQA – Unit 7 Geometry	
Spring 2 nd Half	GCSE-AQA – 8300 21. Sequences Sequence rules, Finding the nth term, Special sequences, 22. Units and proportionality Compound units, Direct proportion, Inverse proportion, Growth and decay ELC -AQA – Unit 8 – Statistics	15 hours 5 weeks
Summer 1 st Half	GCSE-AQA –8300 Revision and Examinations 3 papers. ELC -AQA – consolidating all units	18 hours 6 weeks
Summer 2 nd Half	GCSE-AQA –8300 Revision and Examinations 3 papers. ELC -AQA – consolidating all units	21 hours 7 weeks