

**Overall Curriculum Aim:**

To develop all students as creative mathematicians who can apply, reason, question, challenge and be successful

Scheme for Learning  
Curriculum Area – Maths  
Overview – Year 9 ACE Maths 2021-2022

Personnel Responsibility – Mr D Albon (Curriculum Director)  
Quality Assured by – Mr C Mills (VP)  
Exam Board/Qualification at KS4 – Edexcel 1MA1

Assessment Cycle	Topic/Unit Title – Big Question	Rationale/Skill Development	Link to Assessment Objectives/Progression Scales Skills  The following areas will be assessed
1	Do We Need All of Fractions, Decimals and Percentages?	Students will develop an understanding of a wide range of key skills linked to fractions, operations with fractions, conversion between fractions, decimals and percentages. As well as percentages of an amount, calculating simple interest and making the links to how they can be used in real-life situations. The topics covered will be essential base-knowledge for more in depth study at GCSE.	<p><b>Securing/Acquiring various Number skills</b></p> <ul style="list-style-type: none"> <li>• Simplifying fractions</li> <li>• Operations with fractions</li> <li>• Conversion between fractions, decimals and percentages</li> <li>• Percentage of an amount/ percentage multipliers/simple interest</li> <li>• Rounding/estimation</li> </ul>
2	What is Algebra Used For?	Students will develop an understanding of a wide range of key skills linked to HCF, LCM, prime decomposition, simplifying expressions, expanding brackets, solving equations and making the links to how they can be used in real-life situations. The topics covered will be essential base-knowledge for more in depth study at GCSE.	<p><b>Securing/Acquiring various Number and Algebra skills</b></p> <ul style="list-style-type: none"> <li>• Highest common factor/ lowest common multiple</li> <li>• Writing/simplifying expressions</li> <li>• Index notation</li> <li>• Expanding brackets/factorising linear expressions</li> <li>• Solving equations</li> </ul>
3	How are Algebra and Geometry Linked?	Students will develop an understanding of a wide range of key skills linked to measuring an angle, angles in polygons, calculating interior/exterior angles, angles on parallel lines, area of 2D shapes, area of compound shapes and making the links to how they can be used in real-life situations. The topics covered will be essential base-knowledge for more in depth study at GCSE.	<p><b>Securing/Acquiring various Geometrical skills</b></p> <ul style="list-style-type: none"> <li>• Measuring an angle</li> <li>• Angles in a triangle/angles in a quadrilateral</li> <li>• Angles on parallel lines</li> <li>• Calculating interior/exterior angles</li> <li>• Area of 2D shapes/compound shapes</li> </ul>
4	Are Statistics Lies?	Students will develop an understanding of a wide range of key skills linked to surface area/volume of prisms, statistical diagrams, probability and making the links to how they can be used in real-life situations. The topics covered will be essential base-knowledge for more in depth study at GCSE.	<p><b>Securing/Acquiring various Geometrical and Statistical skills</b></p> <ul style="list-style-type: none"> <li>• Surface area/volume of prisms</li> <li>• Averages</li> <li>• Bar charts/ stem &amp; leaf diagrams</li> <li>• Probability</li> <li>• Frequency tree diagram</li> <li>• Two way table</li> </ul>