

Ashley College Curriculum 2020-21		Subject: <b>Maths</b>					Teacher: <b>Kader Benamara</b>		
Groups	Brief/ Heading from subject LTPs						Subject Intent	Syllabus/ exam board qualification Suggested reading/text books	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
<b>KS3</b>		Unit 1 Number properties and calculations  Unit 2 Shapes and measures in 3D	Unit 3 Statistics  Unit 4 Expressions and equations	Unit 5 Decimals calculations  Unit 6 Angles	Unit 7 Number properties	Unit 8 Sequences  Unit 9 Fractions and percentages	Unit 10 Probability	<p>The maths curriculum is designed to ensure that students receive a high-quality mathematics education. The maths curriculum will:</p> <ul style="list-style-type: none"> <li>-Develop students' ability to reason mathematically and help them to develop an appreciation of the beauty and power of mathematics and have a sense of enjoyment and curiosity about the subject.</li> <li>-Enable students to become fluent in the fundamentals of mathematics through varied and frequent practice with increasingly complex problems over time, so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.</li> <li>-Enable students to reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language.</li> </ul>	<p>MyMaths doddle, HegartyMaths Pearson papers questions will be used for HW. Personalised PPP Pi, Theta, Delta differentiated Text books.</p> <p>5-a-day</p>
<b>KS4</b>	<b>Yr10</b>	Unit 1 Number  Unit 2 Algebra  Unit 3 Graphs, tables and charts	Unit 4 Fractions and percentages  Unit 5 Equations, inequalities and sequences	Unit 6 Angles  Unit 7 Averages and range  Unit 8 Perimeter, area and volume 1	Unit 9 Graphs  Unit 10 Transformations	Unit 11 Ratio and proportion  Unit 12 Right-angled triangles  Unit 13 Probability	Unit 14 Multiplicative reasoning  Unit 15 Constructions, loci and bearings	<p>-Enable students to become fluent in the fundamentals of mathematics through varied and frequent practice with increasingly complex problems over time, so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.</p> <p>-Enable students to reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language.</p>	<p>GCSE (9–1) in Mathematics Edexcel Level 1/Level 2</p> <p>MyMaths (Classwork) Past papers questions will be used for HW. HegartyMaths (Use for HW and catch up work for those students who missed the lessons) Edexcel GCSE (9-1) Mathematics, Foundation Student Book (Rarely used) 5-a-day</p>
	<b>Yr11</b>	Recap from missed units (first two weeks) Unit 10 & Unit 15  Unit 16 Quadratic equations and graphs  Unit 17 Perimeter, area and volume 2	Unit 18 Fractions, indices and standard form  Unit 19 Congruence, similarity and vectors	Unit 20 More algebra  Revision ad practice papers with focus on geometry, measures and probability	Revision and practice papers with focus on numbers, algebra and statistics	Revision ad practice papers with focus on number and algebra	Final revision covering all the areas.  Final GCSE Exams	<p>Students who grasp concepts rapidly will be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material will consolidate their understanding, including through additional practice, before moving on.</p> <p>The maths curriculum is also designed to support the spiritual, moral, social and cultural development of pupils in the following ways:</p> <ul style="list-style-type: none"> <li>-To develop an appreciation of how mathematics is a universal language.</li> </ul>	<p>GCSE (9–1) in Mathematics Edexcel Level 1/Level 2</p> <p>MyMaths (interactive lessons) HegartyMaths (HW and recap for students who missed the lesson) Past papers questions (HW/CW). 5-a-day Personalised PPP Edexcel GCSE (9-1) Mathematics, Foundation Student Book (rarely used) Revision and practice books (to be used as reference for students)</p>

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