

Curriculum Planning: 2019-20

<u>Department</u>	Computing & ICT	
<u>Curriculum Intent (Overall)</u>	To develop knowledge and skills in Computing & ICT	
	<u>Curriculum Intent (Year Group)</u>	<u>Opportunities and Experiences</u>
<u>Year 7</u>	<p>2 lessons a fortnight</p> <p>To develop the students' knowledge and understanding incusing the internet safely as well as how to report concerns.</p> <p>To develop knowledge and understanding on how computer works as well as the skills in converting Binary to Denary and vice versa.</p> <p>The final unit will give them the oppportunity to create a project on a chosen charity in order to develop their research skills as well as PowerPoint skills.</p>	<p>Safer internet day lessons including an assembly to the year group.</p> <p>Possible trip to sky studios for this year group.</p>
<u>Year 8</u>	<p>2 lessons a fortnight</p> <p>To develop the students' knowledge and understanding incusing the internet safely as well as how to report concerns.</p> <p>In this year, students have more opportunities to develop their computational thinking skills via programming.</p> <p>The final unit covers Excel data modelling inn order to improve their competency with this software.</p>	<p>Safer internet day lessons including an assembly to the year group.</p> <p>Possible trip to sky studios for this year group.</p> <p>Assemblies to promote computing as an option.</p>
<u>Year 9</u>	<p>Year 9 (BTEC)</p> <p>("transition year" linking KS3 and KS4)</p> <p>The BTEC Tech Award is a vocational qualification intended to expose students to the working world and introduce concepts and content that is related to how computers are used and designed for a particular purpose.</p> <p>Students will be required to consider how we interact with devices and why there are</p>	<p>Computing students will be given the chance to attend BETT Exhibition and the national museum of computing.</p>

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	<p>various ways to interact with them. There will be a discussion regarding the 4 main ways in which users could interact with a Device and how some are more effective than others. Students will be required to provide examples of various devices and interfaces. They will then be required to conduct a project, using a simple methodology and track and monitor their progress as they complete the task of creating their interactive device. The intention is to expose students to a variety of ways in which we as humans interact with the devices around us and how we do this effectively. In the process of completing the component students will need to follow a project management methodology.</p>	
<u>Year 10</u>	<p><u>ICT</u> 5 lessons a fortnight Component 2 - Students will understand the characteristics of data and information and how they help organisations in decision making. They will use data manipulation methods to create a dashboard to present and draw conclusions from information.</p> <p><u>Computer Science</u> Computer Science Students will learn about system architecture, memory, storage, networks, system software, system security and ethical, legal and environmental concerns. Students will complete the 20-hour NEA based on their chosen task.</p>	
<u>Year 11</u>	<p><u>ICT</u> 5 lessons a fortnight Component 2 - Students will understand the characteristics of data and information and how they help organisations in decision making. They will use data manipulation methods to create a dashboard to present and draw conclusions from information. Component 3 - Learners will explore how organisations use digital systems and the wider implications associated with their use.</p> <p><u>Computer Science</u></p>	

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<p><u>Sixth Form</u></p>	<p><u>BTEC IT</u> 8 lessons a fortnight <u>Yr12</u> Unit 2 - Students study the design, creation, testing and evaluation of a relational database system to manage information. Unit 3 - Students explore how businesses use social media to promote their products and services. Learners also implement social media activities in a business to meet requirements. <u>Yr13</u> Unit 1 – Students study the role of computer systems and the implications of their use in personal and professional situations. Unit 5 - Students study how data modelling can be used to solve problems. They will design and implement a data model to meet client requirements.</p>	<p>Year 12 and 13 Students will have the opportunity to be ICT and Computing prefects which they can including their UCAS/Apprenticeship references.</p>
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