



Year 11 - Digital IT - Curriculum – 2024-2025

	Autumn Term		Spring Term		Summer Term	
	1	2	1	2	1	2
Key Concepts	Modern Technologies / Use of data and information	Analysing data to develop a dashboard	Legal and ethical issues / Data threats	Modern teams in a workplace	Information / Data flow diagrams	Legal and ethical issues / Data Threats
Knowledge & Understanding (National Curriculum) <i>Skills are across the whole year.</i>	<p>In year 11, students will understand the characteristics of data and information and how they help organisations in decision making. Students will use a range of data manipulation techniques to develop an interactive dashboard, to present and draw conclusions from information. There is a big focus on how modern organisations are reliant on the use of digital systems to complete critical everyday business tasks. Learners will gain the opportunity to explore how developments in technology allow people inside organisations to collaborate together using technology more effectively. Learners will gain a clear understanding of how technology provides a more flexible working environment.</p> <p>To progress from the foundational knowledge introduced at KS3 on digital safety.</p> <p>To improve knowledge from Year 10, Students in Year 11 will develop a better understanding on the design of software interfaces. Students will understand the different ways that information can be displayed on the screen and the main design principles that should be considered when developing software interfaces. The impact of technology on society and the working world is also a key topic within year 10 so they have an understanding of how it might impact their careers and personal lives in the future. In year 11 the main</p>					



	<p>focus of coursework is on the use of data with technology. Students will develop their own data dashboard by analysing and modifying data that has been given to them by the exam board. Students will make the data more presentable in a range of ways by using spreadsheet skills such as charts, pivot tables, formatting tools and formulas. In year 9, students undergo a KS3 unit of Spreadsheets to ensure a key understanding of how to ensure data is more presentable, with key skills such as formatting and formulas a major focus. This gives students the essential fundamentals of designing and developing spreadsheets to progress to KS4.</p>	
<p>Skills</p>	<p>R Develop RESILIENCE</p>	<p>★ <i>Students need to tackle sensitive real world topics such as staying safe online and cyberbullying. Irrespective of how sensitive and tough the students are learning, students will learn from these experiences.</i></p>
	<p>A Possess AMBITION</p>	<p>★ <i>Students should show a desire to always improve based on constructive feedback and look to participate in group discussions and problem solving. Students should show a desire to always improve their creative digital skills.</i></p>
	<p>I Demonstrate INTEGRITY</p>	<p>★ <i>Demonstrating and upholding strong moral and ethical values when learning specific topics throughout the year.</i></p>



	<p>S <i>Embed Self-Discovery</i></p>	<p>★ <i>Students have to reflect on topical issues such as digital threats and issues. Students should be open to developing personal opinions and feelings, being mature enough to discuss in a group environment.</i></p>
	<p>E <i>Display EMPATHY</i></p>	<p>★ <i>Students need to listen to other people's views, experiences and opinions and be prepared to listen and understand differing viewpoints in order to develop their own personal opinion.</i></p>
<p>Curriculum Links</p>	<ul style="list-style-type: none"> ● Digital safety builds on cyber security, e-safety knowledge and understanding from the year 7 / 8 units of work. Students will consolidate knowledge on how to prevent cyber attacks and key data threats to an organisation. At KS4 level, there is a greater focus of digital threats such as Malware and Phishing attacks on organisations. Digital safety skills developments links in with PSHE helping students to stay safe online across a range of digital applications and how to identify threats to safety both physically and digitally. Students learn to develop interactive flowcharts which represent algorithms and have clear links to mathematical logic. ● Computing systems and representation knowledge and understanding is further enhanced and developed from skills learnt in year 7 / 8 to create a sound overall understanding of how systems work together. Digital IT skills are linked to project work which helps reflect a working environment with pre-production, production and post production stages. This is cross curricular as students also do this in subjects such as Engineering, Art and Media. ● Students' digital skills and computing knowledge from each unit of learning interlinks digital strands and helps students to begin to think about their future digital career prospects. Students during year 7 - 9 get to experiment with digital systems and applications, they begin to get a better understanding of what digital path they might prefer (KS4 Digital Paths - Digital IT / Computer Science). 	
<p>Assessment</p>	<ul style="list-style-type: none"> ● Practical Assessment - Use of data and information / Modern Technologies <ul style="list-style-type: none"> ○ Unit checkpoint - Component 2 / 3 ● Written Test Assessment - Data dashboards and threats / legal and ethical issues <ul style="list-style-type: none"> ○ Unit checkpoint - Component 2 / 3 ● Practical Assessment - Modern teams in the workplace 	



	<ul style="list-style-type: none"> ○ Unit checkpoint - Component 2 / 3 ● Practical Assessment - Information flow diagrams / data flow diagrams <ul style="list-style-type: none"> ○ Unit checkpoint - Component 3 ● Practical Assessment - Legal and ethical issues <ul style="list-style-type: none"> ○ Unit checkpoint - Component 3 ● Test Assessment - Modern technologies / data threats <ul style="list-style-type: none"> ○ Unit checkpoint - Component 3
<p>Aspirations & Careers</p>	<p>Students recognise that the digital sector is a major source of employment in the UK where digital skills span across multiple industries, where almost all jobs in the UK require good levels of digital literacy. Students can pursue a career in computing, the digital sector, university, sixth form or apprenticeship with good digital skills.</p>