

## Computing

Students follow the **Key Stage 3 Programme of Study for Computing**.

*They work on a variety of projects which cover the subject content for the new 2014 curriculum. They have “hands-on” experience of how a computer works through their encounters with the innovative “Raspberry Pi” handheld computers and build on their KS2 knowledge of coding to use algorithms for designing and solving a range of computational thinking problems. Concepts such as abstraction, Boolean logic and the Binary number system are unravelled and links with statistics in the maths curriculum are made through collecting and representing data digitally in real-life scenarios.*

*In Year 9 students take exams to achieve the **Edexcel Functional skills ICT qualification at Entry Level**, where they use their problem solving skills in the Information Technology environment to practically demonstrate use of software applications. This provides a strong foundation for their KS4 studies and equips them with the expectations of the examination process and how they can grow to be confident and successful achievers.*

*Esafety knowledge is developed by studying the CEOP’s (the Government’s Child Exploitation and Online Protection department) KS3 resources which includes recognising inappropriate content online, inappropriate contact, conduct rules and how to report concerns. They use digital media to present and evaluate their projects and develop logical reasoning skills across the three-year curriculum.*

# US1

	Autumn Term	Spring Term	Summer Term
	<b>Computer Science- Using algorithms</b>	<b>Computer Science- Studio Code, "Angry Birds" and "Flappy bird", Hour of Code</b>	<b>Information technology - Introduction to Word Processing</b>
	<b>Computer Science- "Espresso coding" project</b>	<b>Digital Literacy &amp; Information technology – Creative media project, website design</b>	<b>Information technology Introduction to spreadsheets &amp; data</b>
	<b>Digital Literacy - Introduction to Windows Moviemaker/imovie</b>	<b>Digital Literacy - Esafety</b>	<b>Digital Literacy - Creative media project</b>
	<b>Information technology - input and output devices</b>		<b>End of year assessment</b>

# US2

	Autumn Term	Spring Term	Summer Term
	<b>Computer Science- HTML, Unit 1</b>	<b>Computer Science- Working in binary, making a binary calculator</b>	<b>Information Technology – functional skills, word processing</b>
	<b>Digital Literacy &amp; Information technology - Creative media project</b>	<b>Information technology – Hardware and processing</b>	<b>Information technology – Spreadsheets &amp; data project</b>
	<b>Computer Science- HTML, Unit 2</b>	<b>Digital Literacy - Esafety, part 1</b>	<b>Digital Literacy – Esafety part 2</b>
	<b>Digital Literacy – multimedia project</b>		<b>End of year assessment</b>

# US3

	Autumn Term	Spring Term	Summer Term
	<b>Computer Science- Using algorithms</b>	<b>Computer Science- Studio Code, "Star Wars" and "Frozen", Hour of Code</b>	<b>Information technology - Introduction to Word Processing</b>
	<b>Computer Science- "Espresso coding" project</b>	<b>Digital Literacy &amp; Information technology – Creative media project, website design</b>	<b>Information technology Introduction to spreadsheets &amp; data</b>
	<b>Digital Literacy - Introduction to Windows Moviemaker/imovie</b>	<b>Digital Literacy - Esafety</b>	<b>Digital Literacy - Creative media project</b>
	<b>Information technology - input and output devices</b>		<b>End of year assessment</b>

# US4

	Autumn Term	Spring Term	Summer Term
	<b>Computer Science- HTML, Unit 1</b>	<b>Computer Science- Working in binary, making a binary calculator</b>	<b>Information Technology – functional skills, word processing</b>
	<b>Digital Literacy &amp; Information technology - Creative media project</b>	<b>Information technology – Hardware and processing</b>	<b>Information technology – Spreadsheets &amp; data project</b>
	<b>Computer Science- HTML, Unit 2</b>	<b>Digital Literacy - Esafety, part 1</b>	<b>Digital Literacy – Esafety part 2</b>
	<b>Digital Literacy – multimedia project</b>		<b>End of year assessment</b>