

What are the aims and intentions of this curriculum?

The aim of our Key Stage 3 Curriculum is to ensure students experience a broad and balanced experience in ICT and computer science which prepares them effectively for the work place and their future careers. The curriculum incorporates teaching specific software applications which they will experience in the work place and ensuring they can understand and apply the fundamental principles and concepts of computer science. Students are taught to analyse problems in computational terms and have repeated practical experience of writing computer programs in order to solve such problems. They can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems and ultimately are responsible, competent, confident and creative users of information and communication technology.

Term	Topics	Knowledge and key terms	Skills developed	Assessment
Summer 2	Python programming	1/. Students can use the Python programming language to perform tasks and produce specific outcomes.	Students can program using the Python programming language.	Python programming assessment task.
Autumn 1	Video creation and manipulation.	Creating a video using the Adobe video editing suite – Premiere Pro or After Effects. Analysing the video requirements and ensuring it is suitable for audience and purpose. Using green screen technology. Adding animation, text and sound to a video. Colour theory and application. How to review productions.	Video creation for a specific audience and purpose. Video editing skills. Using green screen technology. Adding video, sound, text and animation.	Completed video task.
Autumn 2	Video creation and manipulation.	Creating a video using the Adobe video editing suite – Premiere Pro or After Effects. Analysing the video requirements and ensuring it is suitable for audience and purpose. Using green screen technology. Adding animation, text and sound to a video. Colour theory and application. How to review productions.	Video creation for a specific audience and purpose. Video editing skills. Using green screen technology. Adding video, sound, text and animation.	Completed video task.
Spring 1	Creating effective user interfaces.	Students investigate user interface design for individuals and organisations. Students develop the skills to apply different project planning techniques to plan and design user interfaces. Students learn how to develop and review user interfaces.	What is a user interface? Designing and producing effective user interfaces. Meeting audience needs when producing a user interface. Applying effective design principles when producing a user interface. Designing efficient user interfaces.	User interface designing, implementing and reviewing task.

			<p>Developing, refining and reviewing user interfaces.</p> <p>Creating and implementing a project plan.</p>	
Spring 2	<p>Creating effective user interfaces.</p>	<p>Students investigate user interface design for individuals and organisations. Students develop the skills to apply different project planning techniques to plan and design user interfaces. Students learn how to develop and review user interfaces.</p>	<p>What is a user interface? Designing and producing effective user interfaces.</p> <p>Meeting audience needs when producing a user interface.</p> <p>Applying effective design principles when producing a user interface.</p> <p>Designing efficient user interfaces.</p> <p>Developing, refining and reviewing user interfaces.</p> <p>Creating and implementing a project plan.</p>	<p>User interface designing, implementing and reviewing task.</p>
Summer 1	<p>Spreadsheet modelling and data manipulation.</p>	<p>Importing data into spreadsheet software.</p> <p>Selecting and applying different data manipulation methods.</p> <p>Producing a dashboard to display the summaries of data using appropriate presentation features and presentation methods.</p> <p>Selecting and using different methods to capture and manipulate data such as importing data, using functions, sorting, conditional formatting etc.</p> <p>Selecting and using appropriate presentation methods and features to show data in a dashboard.</p> <p>Use spreadsheet skills to manipulate data.</p>	<p>Advantages and disadvantages of different data collection methods.</p> <p>Using a spreadsheet to import and analyse data.</p>	<p>Spreadsheet and Modelling assessment task.</p>