

## Computing Yearly Overview Shalford

	Computing systems and networks	Creating media	Programming A	Data and information	Creating media	Programming B
<b>ASH</b>						
<b>Cycle A</b>	<b>Technology around us</b>  Recognising technology in school and using it responsibly.	<b>Digital painting</b>  Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally	<b>Moving a robot</b>  Writing short algorithms and programs for floor robots, and predicting program outcomes.	<b>Grouping data</b>  Exploring object labels, then using them to sort and group objects by properties.	<b>Digital writing</b>  Using a computer to create and format text, before comparing to writing non-digitally.	<b>Programming animations</b>  Designing and programming the movement of a character on screen to tell stories.
<b>Cycle B</b>	<b>Information technology around us</b>  Identifying IT and how its responsible use improves our world in school and beyond.	<b>Digital photography</b>  Capturing and changing digital photographs for different purposes.	<b>Robot algorithms</b>  Creating and debugging programs, and using logical reasoning to make predictions.	<b>Pictograms</b>  Collecting data in tally charts and using attributes to organise and present data on a computer.	<b>Digital music</b>  Using a computer as a tool to explore rhythms and melodies, before creating a musical composition	<b>Programming quizzes</b>  Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz.
<b>BEECH</b>						
<b>Cycle A</b>	<b>Connecting computers</b>  Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks.	<b>Stop-frame animation</b>  Capturing and editing digital still images to produce a stop-frame animation that tells a story	<b>Sequencing sounds</b>  Creating sequences in a block-based programming language to make music.	<b>Branching databases</b>  Building and using branching databases to group objects using yes/no questions.	<b>Desktop publishing</b>  Creating documents by modifying text, images, and page layouts for a specified purpose.	<b>Events and actions in programs</b>  Writing algorithms and programs that use a range of events to trigger sequences of actions.
<b>Cycle B</b>	<b>The internet</b>  Recognising the internet as a network of networks including the WWW, and why we should evaluate online content	<b>Audio production</b>  Capturing and editing audio to produce a podcast, ensuring that copyright is considered	<b>Repetition in shapes</b>  Using a text-based programming language to explore count-controlled loops when drawing shapes.	<b>Data logging</b>  Recognising how and why data is collected over time, before using data loggers to carry out an investigation.	<b>Photo editing</b>  Manipulating digital images and reflecting on the impact of changes and whether the required purpose is fulfilled.	<b>Repetition in games</b>  Using a block-based programming language to explore count-controlled and infinite loops when creating a game.
<b>CHESTNUT</b>						
<b>Cycle A</b>	<b>Systems and searching</b>  Recognising IT systems in the world and how some can enable searching on the internet.	<b>Video production</b>  Planning, capturing, and editing video to produce a short film.	<b>Selection in physical computing</b>  Exploring conditions and selection using a programmable microcontroller.	<b>Flat-file databases</b>  Using a database to order data and create charts to answer questions.	<b>Introduction to vector graphics</b>  Creating images in a drawing program by using layers and groups of objects.	<b>Selection in quizzes</b>  Exploring selection in programming to design and code an interactive quiz.
<b>Cycle B</b>	<b>Communication and collaboration</b>  Exploring how data is transferred by working collaboratively online	<b>Webpage creation</b>  Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation	<b>Variables in games</b>  Exploring variables when designing and coding a game.	<b>Introduction to spreadsheets</b>  Answering questions by using spreadsheets to organise and calculate data	<b>3D modelling</b>  Planning, developing, and evaluating 3D computer models of physical objects.	<b>Sensing movement</b>  Designing and coding a project that captures inputs from a physical device.

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