

SUBJECT: Computing Year 7

Computing effects our daily lives, stimulates curiosity and broadens student's horizons, both in the understanding of the wider surrounding platforms and providing access to a range of job opportunities. The computing curriculum provides students with the opportunity to develop a love and appreciation of computing and realise their full creative potential through the breadth and depth of knowledge and skills.

Curriculum overview:

	Autumn term:	Spring:	Summer:
Half term 1	Clear messaging in digital iMedia Get the message across. Choose search terms relating to a particular issue. Use tools to copy an image into another application Create a poster using a desktop publishing application. Develop the idea of branding. Modify a logo using a graphic editing programme. Choose how to combine text and graphic in a slide. Create a brand, plan a consistent layout for a set of slides and modify a logo so that it fits in with the planned slide style. Evaluate content against a rubric. Plan how to deliver a presentation. Explain your work to others through a presentation. Evaluate their work against a rubric.	Scratch Compare how humans and computers understand instructions. Recognise that computers follow the control flow of input/process/output. Predict the outcome of a simple sequence. Modify a sequence. Make a sequence that includes a variable. Define a condition as an expression that will be evaluated as either 'true' or 'false.' Identify where selection statements can be used in a program. Modify a program to include selection. Create conditions that use comparison operators (>,<,<=, Create conditions that use logic operators (and/or/not). Define iteration as the process of repeatedly executing instructions. Identify where count-controlled iteration can be used in a program. Detect and correct errors in a program (debugging). Independently use programming constructs to solve a problem (subroutine, selection, count-controlled iteration, operators, and variables).	Using Media-Gaining support for a cause Select the most appropriate software to use to complete a task. Identify the key features of a word processor. Evaluate formatting techniques to understand why we format documents. Select appropriate images for a given context. Demonstrate an understanding of licensing issues involving online content. Demonstrate the ability to credit the original source of an image. Apply techniques to identify whether or not a source is credible. Referencing techniques and understand the concept of plagiarism. Construct a blog using appropriate software. Apply referencing techniques that credit authors appropriately. Design the layout of the content to make it suitable for the audience
	Important vocabulary:	Important vocabulary:	Important vocabulary:

	Search term Screenshot Annotate Landscape Portrait Download Heading Subheading Body text Brand Logo	Content Licence Present	Sequencing Subroutines Instructions Execute Expressions evaluate conditions selection	Operators Logic Comparison If statements Iteration, Count-Controlled, Condition- controlled, Debugging, Variables	Application Software Word Processor Formatting Fonts Icons Plagiarism Referencing Citation Paraphrase Blog	Appropriate Copyright Licensing Creative Commons Text wrapping Cropping Recolouring
Half term 2	What are computers History of Computers. Identify key points in the development of computers. Identify inputs and outputs and. Sensors. Describe what is inside a computer. Decode binary numbers recognise computer networks and where they are used.		Modelling Data Spreadsheets Identify columns, rows, cells, and cell references in spreadsheet software. Use formatting techniques in a spreadsheet. Use basic formulas with cell references for calculations in a spreadsheet (+, -, *, /). Use the autofill tool to replicate cell data. Explain the difference between data and information. Explain the difference between primary and secondary sources of data. Collect data. Be able to analyse data. Create appropriate charts in a spreadsheet. Use the functions SUM, COUNTA, MAX, and MIN in a spreadsheet. Use a spreadsheet to sort and filter data. Use the functions AVERAGE, COUNTIF, and IF in a spreadsheet		Collaborating Online Respectfully What is a memorable and secure password for an account on the school network? What are the rules of the computing lab? Can you recognise a respectful email? How should you communicate with peers online? Can you explain the effects of cyberbullying? Can you describe cyberbullying? Can you explain the effects of cyberbullying? Cyberbullying assessment	
	Important vocabulary:		Important vocabulary:		Important vocabulary:	
	Abacus, Algorithm, Colossus, Binary, Debugging Binary, Denary, Machine Code, ASCII.	Input, Output, Peripheral, Process, Sensor Motherboard, Processor, Memory, Hard Disk Drive LAN, WAN, Wireless, Network, Topology.	Data Cell Cell reference Row Column Range Drag handle Autofill Formula Conditional formatting	Chart Pie chart Bar chart Series Axis/axes Labels Headers Function Maximum Minimum	Password Email Secure Respectful Monitored	Cyberbullying Audience Digital footprint

Key staff contacts:

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What are our curriculum aims for your child in year 7?

-  Our curriculum aims for all students in year 7 to experience a broad selection of topics, some which will be subject transferable across different subjects.
-  To enable students to realize the creativity within computing and iMedia, understanding the importance of sequencing.

How can I help my child be successful in Computing

Review key vocabulary with your child to help them transfer it to their long-term memory.

Ask students to explain what they have learnt that week, this also helps build long-term memory.

Help them explore computing YouTube channels (like Mit App Inventor and Blender), to give them a broader knowledge of computing in the real world.

How will you assess my child's progress?

Continuous monitoring of the students' progress via Google classrooms, with work submitted weekly, marked and returned.

To monitor the progress in students' knowledge and skills they will sit a short assessment for each topic, with time to mark their work and correct mistakes.