



Computing Vision

Our children are immersed in a digital world, the era of computing continuously evolves and consumes our daily lives. We aim to equip knowledge and skills that prepare for future education and to be work-place ready. Computing builds confidence in using multiple disciplines; develop problem solving and present information on a wide range of media platforms for a wide target audience

Our aim at Stoke High School is to:

To prepare young people for a digital world, developing their digital skills and reduce the digital divide in society.



Empower young people to make positive decisions when using technology: to exchange, collaborate and present information.

Be workplace ready and able to use tools and software effectively, to exchange, share and present. In addition, develop a richer experience understanding the importance of computing and the science behind it.



Year	Autumn	Autumn	Spring	Spring	Summer	Summer
7	Computer Safety and Responsibility Rules, Expectations and Accessing Baseline Assessment Using Email/Etiquette Basic Software Skills (Word/PowerPoint/Excel) Social Networking	Small Basic Programming The Turtle For End For The Text Window Using variables Conditions and Branching Creating the Quiz	Networks from semaphores to the Internet Computer networks and protocols Networking hardware Wired and wireless networks The Internet The World Wide Web	Spreadsheet Modelling Getting to know a spreadsheet Quick calculations Collecting data Become a data master! Level up your data skills!	Clear messaging in digital media Get the message across Poster making Brand Creating a brand Adding content	Using media – Gaining support for a cause Features of a word processor Licensing appropriate images The credibility of sources Research and plan your blog Promoting your cause Project completion
	Assessment	End of topic Multiple Choice Quiz	Program Output	End of topic Multiple Choice Quiz	Spreadsheet Model	Digital Media Output
Consolidation	Consolidation Links					
	Reading Presentations, Carryout worksheet activities, Use of Knowledge organisers, Use of written tutorials, News articles, Comprehension tasks, Word-searches, Homework Tasks, Use of word banks and find the missing word, Use of learning logs for recount and recall, DO NOW tasks. Use of 'The Day'					
8	Computer Crime and Cyber Security Email Scams Computer Misuse Protecting Data Copyright Health and Safety	Coding with Kodu How Programs Work Creating Landscapes Navigating and pathing Clones and creatable Pages and Selection Game Depth	Elements of a Computer System Elements The CPU and FDE Binary Boolean Networks Encryption	Computer Graphics Vector Graphics Bitmap Graphics Meaning Enhancements Adding Text	User Interface Design User Interfaces Audience Needs and Design Principals Practical Project Practical Project Testing and Evaluating	Scratch Programming and Games Design Fundamentals of programming Algorithms Program Development Decision making Game Reactions Project
	Assessment	End of topic Multiple Choice Quiz	Program Output	End of topic Multiple Choice Quiz	Graphic Output	User Interface Design
Consolidation	Consolidation Links					
	Reading Presentations, Carryout worksheet activities, Use of knowledge organisers, Use of written tutorials, News articles, Comprehension tasks, Word-searches, Homework Tasks, Use of word banks and find the missing word, DO NOW tasks, Use of 'The Day'					
9	AI and Machine Learning What is AI? Machine Learning Ethics of AI	Intro to Python Strings and variables Data Types Selection	Spreadsheet Modelling Spreadsheet Basics Data Processing Methods	Digital Information Technology and UI Design Different types of UI Audience Needs Project Requirements Project Development Review and Feedback	Mobile App Development App for that Tappy Tap App School Lab Studios	Mobile App Development User input App Development Project
	Assessment	End of topic Multiple Choice Quiz	Program Output	Spreadsheet Model	User Interface Project	App
Consolidation	Consolidation Links					
	Reading Presentations, Carryout worksheet activities, Use of Knowledge organisers, Use of written tutorials, News articles, Writing frames and scaffolding techniques, Use of word banks, DO NOW tasks, Online reading (website) Use of 'The Day'					



10	BTEC Digital Information Technology Component 1 – User interface Design User interfaces, Factors and influences, Audience needs, Design principles, Design psychology, Designing efficient user interfaces	Component 1 – User interface Design Project planning techniques, Creating project plans, Initial designs, Initial designs, Developing a user interface	Component 1 – User interface Design Controlled Assessment	Component 1 – User interface Design Controlled Assessment	Component 3: Learning Aim A - Modern Technologies Component 3: Learning Aim B -Cyber security	Component 3: C Wider implications of digital systems
	Assessment	Modular Written Assessment	Mock Assessment	Modular Written Assessment	Modular Written Assessment	End of topic assessment
Consolidation						
Theory Component 3 Links						
	<i>Reading Presentations, Carryout worksheet activities, Use of Knowledge organisers, Use of written tutorials, News articles, Writing frames and scaffolding techniques, Use of word banks, DO NOW tasks, Revision guide comprehension tasks for theory element, exam question analysis and breakdown tasks. Use of 'The Day'</i>					
11	Component 3: Learning Aim D - Planning and communication					
	Component 2 – Spreadsheet Modelling	Component 2 – Spreadsheet Modelling	Component 1 – Spreadsheet Modelling Controlled Assessment	Component 2 – Spreadsheet Modelling Controlled Assessment	Component 3 - External Exam Attempt 2	
Assessment	Modular Written Assessment	Modular Written Assessment	Component 3 - External Exam Attempt 1			
Consolidation						
Theory Component 3 Links						
	<i>Reading Presentations, Carryout worksheet activities, Use of Knowledge organisers, Use of written tutorials, News articles, Writing frames and scaffolding techniques, Use of word banks, DO NOW tasks, Revision guide comprehension tasks for theory element, exam question analysis and breakdown tasks. Use of 'The Day'</i>					