YEAR 7 COMPUTING CURRICULUM PROGRESSION OVERVIEW

Subject Curriculum Intent

Develop skills and understanding from KS2. Ensure that students have the opportunity to explore different branches of computing, specifically digital literacy (becoming confident and effective users of computers), computer science (becoming resilient problem solvers) and digital media (becoming skilled and imaginative content creators).

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Торіс	eSafety	Presenting Information	Micro:Bit Programming	Micro:Bit Programming	Handling Data	Audio Editing
Core Knowledge/ Threshold Concept	 How to use email Password policies Avatars Phishing Malware 	 Formatting tools Consistency Templates Interactivity Evaluative skills 	 Block programming principles Micro:Bit hardware Inputs Outputs 	 Selection Iteration Practical problem solving Using random number generators 	 Cell referencing Formulae Functions Formatting tools Wired vs wireless networking 	 Importing audio Trimming audio Envelope tool Working to a brief
Why this learning now?	Critical skills for safe use of computers	Practical skills that students can apply to almost all situations	Moving beyond day-to-d at problem solving and lo	ay practical skills to look ogic	Providing students with knowledge and experience of practical data handling skills	Introduction of creative media as part of the subject – links to the first topic in Y8
Assessment Opportunities:	Regular assessment of practical skills throughout lessons	Regular assessment of practical skills throughout lessons Portfolio assessment against a brief	Regular assessment of practical skills throughout lessons	Regular assessment of practical skills throughout lessons Online assessment of programming knowledge and skills	Regular assessment of practical skills throughout lessons Online assessment of spreadsheet knowledge and skills	Regular assessment of practical skills throughout lessons





Learning at Home	 Each unit includes: an online quiz to check prior knowledge an extended activity to help students reflect on what they have learned a final online quiz to check student progress 						
Key Vocabulary	PhishingMalware	FormattingTemplate	 Micro:Bit Input Output Sensor 	SequenceSelection	CellFormulaFunction	AudioEdit	
Spiritual, Moral, Social and Cultural concepts covered	 eSafety – how to stay safe online and why people commit malicious attacks Presenting information – how to consider audiences other than yourself Micro:Bit programming – the impact that computing can have on real-world problems Handling data – how computers can be used to improve efficiency and accuracy, and some of the potential side effects 						
Links to careers and the world of work	 How computers are used in a variety of workplaces How to respond to a client brief, and to design a product for an audience other than yourself Practical problem solving techniques that apply to programming, but also to the wider world 						





YEAR 8 COMPUTING CURRICULUM PROGRESSION OVERVIEW

Subject Curriculum Intent

Develop skills and understanding from Y7. Ensure that students have the opportunity to explore different branches of computing, specifically digital literacy (becoming confident and effective users of computers), computer science (becoming resilient problem solvers) and digital media (becoming skilled and imaginative content creators).

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Торіс	Rhymes and Chimes (image editing)	Rhymes and Chimes (image editing)	Flowcharts and Python Programming	Python Programming	False News	App Design
Core Knowledge/ Threshold Concept	 Combining text, shapes and images Selection tools Use of layers 	 Image adjustments Layer style effects Interpreting a client brief Producing a complex graphic for a purpose 	 Fundamental programming principles Flowchart symbols Python syntax Inputs Outputs 	 Arithmetic String handling Selection Iteration Testing and debugging 	 Types of false news How to identify false news Why people create false news 	 Principles of interactive mobile app design Importing and aligning assets Triggers Linking scenes
Why this learning now?	Practical creative media from the end of Y7	skills following directly	Building on block-based Y7 at this time and begin text based coding	programming skills from ning the transition to	Building on eSafety skills from Y7	Combining creative media skills with digital literacy skills to produce a resource linked to Y6 transition
Assessment Opportunities:	Regular assessment of practical skills throughout lessons	Regular assessment of practical skills throughout lessons Portfolio assessment against a brief	Regular assessment of practical skills throughout lessons	Regular assessment of practical skills throughout lessons Online assessment of programming knowledge and skills	Regular assessment of practical skills throughout lessons Online assessment of digital literacy knowledge and skills	Regular assessment of practical skills throughout lessons





Learning at Home	 Each unit includes: an online quiz to check prior knowledge an extended activity to help students reflect on what they have learned a final online quiz to check student progress 						
Key Vocabulary	CanvasSelectionAudience	LayerSaturation	SyntaxFlowchartDecision	DebugVariable	Search engineBiasReliability	 Application Augmented Reality 	
Spiritual, Moral, Social and Cultural concepts covered	 Image editing – how to consider audiences other than yourself Flowcharts and python programming – the impact that computing can have on real-world problems False news – how to spot false news and understand the motivation behind it App design – how handheld devices and augmented reality are impacting 21st century culture 						
Links to careers and the world of work	 How computers are How to respond to Practical problem s 	e used in a variety of wo a client brief, and to de olving techniques that a	orkplaces sign a product for an audi apply to programming, bu	ence other than yourself t also to the wider world			





YEAR 9 COMPUTING CURRICULUM PROGRESSION OVERVIEW

Subject Curriculum Intent

Develop skills and understanding from Y8. Ensure that students have the opportunity to explore different branches of computing, specifically digital literacy (becoming confident and effective users of computers), computer science (becoming resilient problem solvers) and digital media (becoming skilled and imaginative content creators). Support students in making informed decisions for GCSE options

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Торіс	Python Programming	Bits and PCs	Magazine (image editing)	Digital Photography	Future Tech
Core Knowledge/ Threshold Concept	 Data types Casting Selection Iteration Robust programming techniques 	 Computer hardware Processors Storage technologies Data handling with spreadsheets 	 Creating a blank canvas Reviewing existing products in order to identify ideas Understanding a visual identity Recapping image editing skills from Y8 	 Use of clipping masks Use of gradient masks Creation of frames and out of bounds 	 Understanding what makes photographs effective Photographic vocabulary Composition rules Exposure settings 	 Current trends in technology Risks of technology How to work as a team How to present to an audience
Why this learning now?	Building on and reinforcing knowledge and skills from Y8.	Relevant knowledge and skills for those wanting to choose CS or IT at GCSE and lifelong skills for all	Reinforcing and extendin from Y8. Providing a stro choosing iMedia at GCSE	g knowledge and skills ng platform for those	An alternative looks at digital media, timed for better weather	Summative unit that includes teamwork and a combination of skills learned throughout KS3
Assessment Opportunities:	Regular assessment of practical skills throughout lessons Online assessment of programming knowledge and skills	Regular assessment of practical skills throughout lessons Online assessment of digital literacy knowledge and skills	Regular assessment of practical skills throughout lessons	Regular assessment of practical skills throughout lessons Portfolio assessment against a brief	Regular assessment of practical skills throughout lessons Portfolio assessment against a brief	Regular assessment of practical skills throughout lessons





Learning at Home	 Each unit includes: an online quiz to check prior knowledge an extended activity to help students reflect on what they have learned a final online quiz to check student progress 						
Key Vocabulary	SyntaxSelectionIteration	HardwareStorageCellFormula	LayerContextFilter	GradientMaskClone	CompositionApertureExposure	TechnologyConsequencesCollaboration	
Spiritual, Moral, Social and Cultural concepts covered	 Python programming – the impact that computing can have on real-world problems Bits and PCs – understanding how to make sense of computing technology in the real world Image editing – how to consider audiences other than yourself Image editing – understanding that not all images are genuine Digital photography – safeguarding, privacy and legislation around capturing and sharing images Future tech – current trends in technology and the risks and negative consequences that go along with them 						
Links to careers and the world of work	 How computers How to respond Practical problem 	are used in a variety of wo to a client brief, and to de n solving techniques that	orkplaces esign a product for an aud apply to programming, bu	lience other than yourself ut also to the wider world			



