## **Curriculum Progression**





	Computing					
Year 8	Topic	Programme of Study				
Autumn 1	KODU	Why This?				
	(Visual	To show an awareness of the difference in programming mediums				
	Programming)	Why Now?				
		To show the difference between block coding in year 7 and visual in year 8				
		Key Knowledge				
		To understand game concepts (gamification)				
		Key Vocabulary				
		Terrain				
		Path				
		Program code				
		World				
		Scoring				
		Sources				
		KODU Game Lab				
		Curriculum Assessment tasks				
		Report evaluating own game.				
		Personal Development links				
		Literacy, respect				
Autumn 2	APP Inventor	Why This?				
		Direct experience of programming skills and creativity by creating APPS				
		Why Now?				
		Links between visual and block-based programming which then leads to text based				
		later in the year.				
		Key Knowledge				
		How Apps are made.				
		Key Vocabulary				
		Navigate				
		Designer				
		Emulator				
		Block editor				
		Objects				
		Attributes				
		Sources				
		MIT				
		Curriculum Assessment tasks				
		Self-assessment evidence				
		Personal Development links				
		Suitability of target audience				

## **Curriculum Progression**





Spring 1	Programming	Why This?
	essential in	To build students confidence and knowledge of key programming constructs
	Scratch 2	Why Now?
		Build on KS3 curriculum and allows students the opportunity to expand their
		knowledge through this study.
		Key Knowledge
		Focuses on key techniques used in programming.
		Key Vocabulary
		Sequencing
		Iteration
		Conditions
		Selection
		Operators
		Sources
		Scratch.mit.edu
		Curriculum Assessment tasks
		Summative assessment
		Personal Development links
		To enable students to be resilient learners
Spring 2	Media -	Why This?
	Animations	To learn how animation is created in the media animation (CGI)
		Why Now?
		Prepares students for a media option at KS4
		Key Knowledge
		Organic modelling of personalised animations
		Key Vocabulary
		Extrude
		Parenting
		Attributes
		Key frames
		Objects
		Sources
		Blender
		Curriculum Assessment tasks
		Rubric
		Personal Development links
		Graphic designers, Animators
Summer 1	Developing for	Why This?
	the Web	To interpret the code behind website (HTML)
		Why Now?
		To differentiate between different coding concepts
		Key Knowledge
		HTML and CSS
		Key Vocabulary
		HTML
		Attributes

## **Curriculum Progression**





		TAGS
		CSS
		Formatting
		Search Engines
		Sources
		Txt files
		Curriculum Assessment tasks
		Summative Assessment
		Personal Development links
		Web Designer, literacy, citizenship
Summer 2	Introduction	Why This?
	to Python	To demonstrate text-based coding.
	(Programming)	Why Now?
		Last year students learnt block-based coding and Python is the next progression as
		its text based.
		Key Knowledge
		How to write programs in order
		Key Vocabulary
		Algorithms
		Syntax
		Assignments
		Integer
		Variables
		Selection
		Sources
		Raspberry Pi Foundation
		Curriculum Assessment tasks
		Summative Assessment
		Personal Development links
		Replicating the programming environment/transferable skills/literacy