

# Computing KS3 Curriculum Intent, Implementation and Impact Overview

Year: 7 Subject: Computing						
National Curriculum Coverage, key concepts and skills ('Big Ideas')	IMPLEMENTATION					
	Half Term 1 Y7 Unit 1 Context: online safety, email, basic office skills on Microsoft Word.  Key Vocabulary Audience, purpose, consistency, format, layout, appropriate, email, font.  Prior Learning/LTM: KS1 and KS2 IT  Cultural Capital: Significance of IT skills in the workplace  Links to Numeracy Screen time calculated Recommended hours	Half Term 2 Y7 Unit 1 Context: Google Docs skills, online safety, hardware, software, Kodu.  Key Vocabulary Formatting, layout, slide master, consistency, e-safety, monitor, keyboard, mouse, operating system, object, world.  Prior Learning/LTM: KS1 and KS2 IT  Cultural Capital: Significance of IT skills in the workplace  Links to Numeracy Time-related aspects and component performance.	Half Term 3 Unit 2 Context: Scratch & Kodu  Key Vocabulary: Syntax Error, Logic Error, Operator, sequence, selection, iteration, variable  Prior Learning/LTM: Scratch / Purple Mash  Cultural Capital: Ada Lovelace - Analytical Engine Programming impact on the World  Links to Numeracy Comparison / logical operators, BIDMAS	Half Term 4 Unit 2 Context: Spreadsheets & Kodu  Key Vocabulary: Syntax Error, Logic Error, Operator, sequence, selection, iteration, variable, cells, row, column, SUM, MAX, MIN, AVERAGE.  Prior Learning/LTM: Scratch.  Cultural Capital: Significance of IT skills in the workplace. Importance of spreadsheets.  Links to Numeracy Multiplication, Addition, Subtraction, Divide, Decimals all on spreadsheets.	Half Term 5 - Unit 3 Context: Spreadsheets & Scratch & Digital Footprint  Key Vocabulary: Syntax Error, Logic Error, Operator, sequence, selection, iteration, variable, cells, row, column, SUM, MAX, MIN, AVERAGE.  Prior Learning/LTM: Scratch/Kodu  Cultural Capital: Significance of IT skills in the workplace. Importance of spreadsheets.  Links to Numeracy Multiplication, Addition, Subtraction, Divide, Decimals all on spreadsheets	Half Term 6 - Unit 3 Context: Spreadsheets & Scratch  Key Vocabulary: Syntax Error, Logic Error, Operator, sequence, selection, iteration, variable, cells, row, column, SUM, MAX, MIN, AVERAGE.  Prior Learning/LTM: Scratch/Kodu  Cultural Capital: Significance of IT skills in the workplace. Importance of spreadsheets.  Links to Numeracy Multiplication, Addition, Subtraction, Divide, Decimals all on spreadsheets
Design, use and evaluate computational abstractions			X	X	X	X
Understand several key algorithms that reflect computational thinking			X	X	X	X
Use two or more programming languages, to solve a variety of computational problems			X	X	X	X
Understand simple Boolean logic [for example, AND, OR and NOT] and some of its uses in circuits and programming		X	X	X	X	X
Understand the hardware and software components that make up computer systems		X				
Understand how instructions are stored and executed within a computer system		X				
Understand how data of various types can be represented and manipulated digitally, in the form of binary digits						
Undertake creative projects that involve selecting, using, and combining multiple applications	X	X		X	X	X
Create, re-use, revise and re-purpose digital artefacts for a given audience, with attention to trustworthiness, design and usability	x	X		X	X	X
Understand a range of ways to use technology safely, respectfully, responsibly and securely.	x	X		X	X	X
IMPACT	HT1 Assessment 1: Email task Assessment 2: Word practical assessment	HT2 Assessment 1: Hardware Google Slides, Kodu Game.	HT3 Assessment 1: Assess final game (Scratch),	HT4 Assessment 1: Kodu (Creating a game)	HT5 Assessment1: Digital Footprint & Spreadsheet	HT6 Assessment: Spreadsheet Quiz & Scratch

	<p><b>Progressions to KS4:</b> Thorough use of basic office skills, appropriate folder structure and through use of email to communicate effectively.</p>	<p><b>Assessment 2:</b> Hardware/Software Google Slides, Kodu Game.</p> <p><b>Progressions to KS4:</b> Thorough use of basic office skills &amp; Computational thinking GCSE Computing.</p>	<p><b>Assessment 2:</b> Digital Footprint, Scratch</p> <p>Progression to KS4: Computational thinking GCSE Computing</p>	<p><b>Assessment 2:</b> Spreadsheet</p> <p><b>Progression to KS4:</b> Computational thinking GCSE Computing &amp; thorough use of basic office skills.</p>	<p><b>Assessment 2:</b> Spreadsheet &amp; Scratch</p> <p><b>Progression to KS4:</b> Computational thinking GCSE Computing thorough use of basic office skills.</p>	<p><b>Assessment 2:</b> Recall Email</p> <p><b>Progression to KS4:</b> Computational thinking GCSE Computing thorough use of basic office skills.</p>
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