## Stuart Bathurst Catholic High School

Low stakes quizzes



## Computer Science, IT, Business and Digital Media Department

## Long-term sequencing Year 9 KS3 IT

**CURRICULUM INTENT:** To develop an in-depth knowledge of procedural computer languages and algorithms; ; to understand how technology relates to cultural and spiritual learning; to further develop and extend key computing topics such as cybersecurity, data representation and hardware leading towards a high level of knowledge that will be required for GCSE Computer Science; to

HALF TERM 1: PYTHON	HALF TERM 2: COMP SYS / INTERACTIVE MEDIA	HALF TERM 3: CYBERSECURITY
STUDENTS MUST KNOW HOW TO:	STUDENTS MUST KNOW:	STUDENTS MUST KNOW:
<ul> <li>create algorithms and simple Python programs.</li> </ul>	<ul> <li>Understanding the hardware and software principles</li> </ul>	<ul> <li>Data and privacy</li> </ul>
<ul> <li>create Python programs combining integers and</li> </ul>	within a computer system.	<ul> <li>Social engineering and online threats</li> </ul>
strings	<ul> <li>Identifying some of the key points in computer</li> </ul>	<ul> <li>Hacking</li> </ul>
<ul> <li>use IF statements in their programming.</li> </ul>	history.	<ul> <li>Malware threats</li> </ul>
<ul> <li>use loops in their programming.</li> </ul>	<ul> <li>Identify the hardware associated with a computer</li> </ul>	<ul> <li>Defending against cyberthreats</li> </ul>
• create and sort lists in Python.	system. Identify the hardware found in a computer.	<ul> <li>Practical task</li> </ul>
	<ul> <li>Explain the technology found inside a computer.</li> </ul>	
HOW THIS WILL BE ASSESSED:	<ul> <li>Create an interactive media application to show your</li> </ul>	HOW THIS WILL BE ASSESSED:
Baseline Test	knowledge of these topics	Assessment in LRW3 (HT4)
Assessment in LRW1 (HT2)	HOW THIS WILL BE ASSESSED:	Work (and homework) received and assessed electronically
Work (and homework) received and assessed electronically	Assessment in LRW2 (HT3)	Low stakes quizzes
Low stakes quizzes	Work (and homework) received and assessed electronically	
	Low stakes quizzes	
HALF TERM 4: DATA REPRESENTATION	HALF TERM 5: WEB AND APPLICATION DESIGN (1)	HALF TERM 6: WEB AND APPLICATION DESIGN (2)
STUDENTS MUST KNOW:	STUDENTS MUST KNOW:	STUDENTS MUST KNOW:
• Binary	Web site design	<ul> <li>Introduction to DreamWeaver</li> </ul>
<ul> <li>Hexadecimal</li> </ul>	<ul> <li>Analysis and page layout</li> </ul>	<ul> <li>Creating a basic web site</li> </ul>
<ul> <li>Character Sets</li> </ul>	Introduction to HTML	<ul> <li>Use of interactive features</li> </ul>
<ul> <li>Images</li> </ul>	<ul> <li>Creating basic web pages</li> </ul>	<ul> <li>Images, sound and video</li> </ul>
Sound	Applying CSS	<ul> <li>Using all of the tools learnt in the website</li> </ul>
<ul> <li>Compression</li> </ul>	Hyperlinks	Evaluation
HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:
Assessment in LRW3 (HT4)	Assessment in LRW4 (HT5)	Assessment at end of term
Work (and homework) received and assessed electronically	Work (and homework) received and assessed electronically	Work (and homework) received and assessed electronically

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Home learning will consist of a combination of: Worksheets (written and online), SENECA, Key word learning from Knowledge Organisers

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