



# ST. CATHERINE'S COLLEGE

A CHURCH OF ENGLAND ACADEMY

Learning overview for Computer Science			Year group: 8	
Term	Key topics / scheme of work	What most students will learn (Prior assessment may alter starting point & content)	Key skills used	How will this learning be assessed?
Term 1 or 2 (unit 1)	Coding an E-safety Python quiz	Coding skills in Python, concluding with students programming their own E-safety quiz in Python	Outputting to screen, syntax correction, selection skills.	Computational challenges, progress check test and end of unit test
Term 3 and 4 (unit 2)	Computer Control	Computer control, how computers are used to automate aspects of our lives and how this happens. How to create a simulated event e.g. programming an automated greenhouse	The three accepted ways to code, input, processes and output devices, flowcharts, the role of different sensors. They will use subroutines to make programmes more efficient.	Computational challenges, progress check test and end of unit test
Term 5 & 6 (unit 3)	Interactive interface	How to create a two-page website with embedded media and widgets.	Using a range of html tags and CSS. Embedding various interactive features into a webpage. Ethical issues regarding the use of images and accessibility.	Computational challenges, progress check test and end of unit test

