

Year 7 Computing Curriculum Overview

		Autumn 1 (7/8 weeks)	Autumn 2 (7 weeks)	Spring 1 (6 weeks)	Spring 2 (5/6 weeks)	Summer 1 (5/6 weeks)	Summer 2 (7 weeks)
Year 7	Course topic	Using technologies safely and responsibly - Online Safety - Digital Literacy – MS Office themes included TCC “Clear messaging in digital media”		Understanding Computers & Networks TCC “From semaphores to the internet”		Programming Essentials – Language agnostic TCC “Programming essentials”	
	Additional support links:	CEOP Education Digital literacy - BBC Bitesize		What is a network? Introduction to networks- BBC Bitesize Networks from semaphores to the Internet		Scratch - Imagine, Program, Share Code.org Introduction to programming - BBC Bitesize	
	Powerful/ Core Knowledge	- How to create a secure and memorable password - How the internet and social media can be used for positive self-promotion - How people can curate and experiment with their identity online and why they might wish to do this. - Be aware personal online activity, history or profile will affect the type of information returned in a search or on a social media stream, and intended to influence beliefs, actions and choices - How and why people who they communicate with online may try to influence others negatively - Strategies for assessing the degree of trust placed in people or organisations online - Describe the initial signs of potentially problematic situations e.g. grooming, cyberbullying (incl. homophobic, racist, gender, exclusion).		- Describe what is appropriate to say and do in different online settings/ platforms (e.g. opinions, values, information, shares, ‘likes’, ‘forwards’). - Select the tools in: A word processor; Presentation software; Desktop publisher, to produce a - document appropriate for a target audience - How does MS office provide support for accessibility (voice to type, read text aloud etc.)		- Sequence – putting instructions in the right order to make something happen - Selection – using conditions to control the flow of a program - Iteration /Repetition – the ability to execute a sequence of instructions many times until a certain condition is met - Named variable – a data store used in a program to store a single value - Key people could include: - Christopher Strachey - Grace Hopper - Ada Lovelace	

		- Assess when they need to take action and explain what to do if they are concerned about an online relationship - Explain how relationships can safely begin (on- line dating), develop, be maintained, change and end online.		
	Skills: Included here are the specific skills your child will learn	Be able to identify and report online safety issues Ability to use the MS Suite effectively for use across the wider school curriculum and for electronic communication	Network knowledge Difference between the WWW and the Internet Including LAN and WAN Identify components of computer systems and device. Understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems.	Read and write simple algorithms Interpret Develop flowcharts and/or algorithms Develop computational thinking skills