

YEAR	TOPICS	TERMLY INDEPENDENT WORK
7	 Autumn Term 1.1. Basic Digital Skills 1.2. Components of a Computer System 1.3. Data Representation Techniques# 1.4. Media literacy Spring Term 1.1 Introduction to programming - blocks 2.2. Computational thinking Summer Term 1.1 Further programming with text 1.2 Introduction to Minecraft Hour of Code 	 Autumn Term Research into the history of Computer Science Spring Term Binary practice Summer Term Programming Challenges
8	 Autumn Term 1.1. Flowcharts and Control 1.2. Physical computing with MicroBits Spring Term 1.1. Further introduction to text based programming 2.2. Developing for the web Summer Term 1.2 D Animation 2.2. Excel skills 	 Autumn Term 1.1. Flowol models 1.2. Investigation into embedded systems Spring Term 1.1. Python: Chilli Challenges Minecraft Data Representation Summer Term HCl design





	1. Autumn Term	1. Autumn Term
9	1.1. Networking – Online safety and the internet	1.1. Develop revision guide on networking
	1.2. 3D modelling and animation	1.2. Using blender
	2. Spring Term	2. Spring Term
	2.1. Modular programming in C#	2.1. Creating mobile apps
	2.2. Mobile apps development	3. Summer Term
	3. Summer Term	3.1. Robotics investigations
	3.1. Game Development (Godot)	3.2. Open Ended programming project
	3.2. Minecraft Edu	
10	1. Boolean Logic	1) A wide range of extension programming tasks are available throughout the
	2. Data Representation	year, requiring students to develop their analytical, design and
	3. Designing, creating and refining algorithms	development skills within C#
	4. Machine Architecture	2) Develop revision materials in collaborative work area
	5. Network Topologies	3) Investigation into Assembly Language
	6. Practical Programming	4) Investigation of alternative languages
11	Wired and Wireless networks	Develop revision materials in collaborative work area
	2. Topologies, protocols and layers	2) Research directly relating to the programming project
	3. Defensive Design	
	4. Practical programming projects	
	5. System software	
	6. Language Translation	
	7. Ethical, legal, cultural and environmental impact	

PLEASE NOTE:





- This overview sets out a general summary of the basic curriculum taught. It is not an exhaustive list of what may be taught and subject teachers may follow the above in a different order. Further details may be obtained from the Head of Department, if required.
- The Independent Work indicated represents core, headline tasks per term; independent/home work is set in all subject areas, and details are noted in Teams.