Year	Autumn	Spring	Summer
7	 E-Safety including cyber bullying and digital footprints. Office Skills including email, Teams and online systems use. 	 E-Safety including cyber bullying and digital footprints. Introduction to Computer Systems including hardware, software, storage devices, networks and network security. 	E-Safety Including cyber bullying and digital footprints. Photoshop Iooking at image manipulation in the media and using skills learnt to create an image based on a given scenario. Scratch Including cyber bullying and develop a game based
8	E-Safetyincluding body image and social media.	E-Safety Including body image and social media.	 around the classic PONG theme. E-Safety including body image and social media.
	 Intermediate Computer Systems including binary, sorting algorithms, network topologies, 	 Vector Graphics including digital graphic properties, branding and image editing skills. 	Game Maker, • a high-level visual programming language where students learn

	computer logic and data representation.	• discovery of techniques that cybercriminals use to steal data, disrupt systems, and infiltrate networks.	coding concepts, basic scripting and develop a maze game of their own theme, similar to that of PAC MAN
9	 E-Safety including grooming, inappropriate content and messaging. Python including sequence, selection, iteration and string manipulation. 	E-Safety Including grooming, inappropriate content and messaging. Interactive Multimedia Products Students design and create a product for a given scenario, including video, sound, and animation. Photoshop Iooking at image manipulation in the media and using skills learnt to create an image based on a given scenario.	E-Safety Including grooming, inappropriate content and messaging. Digital Literacy Skills Students will be empowered with knowledge and skills to enable them to be exceptional digital citizens of today's digital world.
10	Systems architecture	Programming fundamentals including sequence, selection, iteration, and string manipulation. Computer networks	Ethical, legal, cultural & environmental impacts of Digital Technology. Programming fundamentals

	including primary, secondary, units, data representation and compression.	 connections and protocols including types of factors effecting the performance of hardware required for networks. Also, network topologies and methods of connection. Network security including threats to computer systems and how to protect against vulnerabilities. Systems software 	including sequence, selection, iteration and string manipulation.
11		 including both operating, application and utility software. 	
	 Programming fundamentals including sequence, selection, iteration and string manipulation. 	Component 1 and component 2 revision.	Component 1 and component 2 revision.
	 Additional programming techniques including records to store data, SQL, arrays and subprograms. 		
	 Producing robust programs including defensive design and testing. 		

Curriculum Overview – Computer Science- Rye Hills.