	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Year 7	Online safety	Online safety	Scratch coding	Scratch coding	Microsoft Word and Goo apps
	Online Safety introduces our year 7s to knowledge that protects them from harm by the devices, networks and the people using this technology (third parties) through awareness, education, information and technology. Year 7s will be introduced to cyber bullying via messaging, Peer pressure and cyberbullying, Consensual and non-consensual sharing of nude and semi-nude images, Grooming and blackmail and the impact of social media on our self-esteem.	Year 7s with be introduced to the topics of sexual harassment, Digital footprint & PEGI, be made aware of their "Screen time", County lines and Child criminal exploitation and Radicalisation.	Fundamentals of coding including computational thinking, sequence, selection and iteration and basic movements.	Inputs and variables, creation of small programs.	introduction and use of Goog classroom.
Year 8	Binary and number systems	Binary and number systems	Networking	Networking	Protocols
	Number systems including binary and hexadecimal.	ASCII and algorithms.	Networking including, LAN and WANs, Ring and bus.	Mesh and star network, wired and wireless networks and server and client networking models.	Introduction to various netwo protocols including HTTP, SM FTP and POP3.
Year 9	Logic	Logic	Python	Python	Advanced Python
	Introduction to AND, and OR what they look like and how they are used.	Introduction to the NOT gate and simple circuits found in the CPU.	Introduction to Python coding including Variables, Input and selection.	Further learning of Python concepts including Sequence, Selection and Iteration.	Flowcharts and sub programs
Year 10	Memory and storage	Systems architecture/Boolean	Programming fundamentals	Networks	Network security
	Primary storage (Memory), Secondary storage, Units, Data storage, compression.	Architecture of the CPU, CPU performance, Embedded systems.	Variables and constants, Data types, Additional programming techniques.	Networks and topologies, Wired and wireless networks, protocols and layers.	Threats to computer systems networks, Identifying and preventing vulnerabilities.
Year 11	Programming fundamentals/IDE	Ethical, legal, cultural and environmental impact	Programming fundamentals	Revision	Revision
	Defensive design, Testing.	Legislation relevant to Computer Science, Impacts of digital technology on wider society.	Project work/revision.	Revision topics based on student feedback and testing during the course.	Revision topics based on stud feedback and testing during t course.

	Summer 2
oogle	Microsoft Word and Google apps. Orchard Park High School uses a range of Google applications for everyday school use. Year7 will be introduced to and learn how to use Microsoft Word, Google docs and Google drive.
working VITP,	Protocols/Cyber attacks Introduction to various cyber attacks including a virus, trojan, spyware and eavesdropping.
	Advanced Dutken
ns.	Advanced Python Pseudocode and further advanced Python coding concepts.
	Systems software/Algorithms
ns and	Operating systems, Utility software.
	Revision
udent g the	Revision topics based on student feedback and testing during the course.