

YEAR 9 CURRICULUM INFORMATION – BUSINESS AND COMPUTING

	Spring 1	Spring 2
What will students be learning?	Students begin by learning about different types of networks (LANs and WANs) and the benefits of networking. They will be able to identify the role of different hardware used within a LAN and be able to discuss the benefits and drawbacks of star and mesh topologies. They will also learn about factors that can impact the performance of a network.	Students will study the topic of 'Programming Fundamentals' where they will learn about the different types of programming languages there are and how they are used to solve a variety of computational problems. They will then learn the basics of how to program in Python by creating variables, outputting data, using selection and condition-controlled iteration.
How will students be assessed?	Students will be assessed on the topic with a set of multiple-choice and short answer questions (10 marks).	Students will be assessed on the topic with a set of multiple-choice and short answer questions (10 marks).
Literacy – What keywords will be taught?	<ul style="list-style-type: none"> • Local area network (LAN) • Wide area network (WAN) • Router • Switch/hub • Ethernet • Bandwidth • Latency 	<ul style="list-style-type: none"> • Programming Language • Machine Code • Assembly Language • Variable • Sequence • Selection • Iteration • IF statements • WHILE loops • Syntax error • Logic error
What employability skills are being developed?	Communication, Organisation, Analysis.	Problem solving skills, logical reasoning, and numeracy.
Wider Curriculum Links?	English – Analysis and evaluation Maths – Bandwidth utilisation	Maths – numeracy and logical reasoning
What useful websites are there for this topic?	What is a network? - Introduction to networks - KS3 Computer Science Revision - BBC Bitesize	Programming - KS3 Computer Science - BBC Bitesize SenecaLearning - Coding: Introduction to Python v3
What wider reading could be done for this topic?	Networks Free Notes & Practice – Computer Science: KS3	The three basic programming constructs - Programming constructs - OCR - GCSE Computer Science Revision - OCR - BBC Bitesize
What else can students be doing independently to develop their	Create revision cards for each topic area	Create revision cards for each topic area. Students can learn how to code using different languages using this website. Learn today, build a brighter tomorrow. Code.org

understanding of this topic?

Sign up to the online course on Seneca (Key stage 3 Computer Science) and complete the activities: [Networks](#) | [Free Notes & Practice – Computer Science: KS3](#)