

## Year 10 Curriculum Intent Computer Science

Year 10 Term	Unit of work	Intent
Autumn	PROGRAMMING	Students will spend the first half-term working solely on learning to program using Python, which was introduced at the end of year 9. Students will learn the key concepts of SEQUENCE, SELECTION and ITERATION. They will learn both syntax and problem-solving, through a range of practical programming activities. There will be a programming assessment at the end of this unit of work
	DATA	UNIT 2 – DATA  Students will begin to learn the theory content for paper 1 of the specification. The first unit to be covered will be UNIT 2 - the DATA unit which comprises:
Spring	DATA	The Binary System Data Representation Data Storage and Compression  Alongside this they will continue to practice their coding skills, using Python to complete content-appropriate programming activities
	COMPUTERS	UNIT 3 – COMPUTERS  Students will continue to cover the content for paper 1. The second unit students will cover is UNIT 3 – COMPUTERS – comprises: Hardware Software Programming Languages
Summer	COMPUTERS	Alongside this they will continue to practice their coding skills, using Python to complete content-appropriate programming activities
	NETWORKS	UNIT 4 - NETWORKS  Students will continue to cover the content for paper 1. The third unit to be covered is UNIT 4 – NETWORKS. This comprises: Networks and protocols Network security  Alongside this they will continue to practice their coding skills, using Python to complete content-appropriate programming activities
Ongoing	Coding Club, other	Coding Club will be scheduled weekly, run by Mr Cunningham/Mr Barron  Other extra-curricular opportunities as appropriate offered by Mr Cunningham/Mr Barron

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