COMPUTING

YEAR 9

CAREERS LINKS

developer, web programmer,

Cyber security, ICT teacher,

graphic designer, games

office worker, accountancy.

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9.1 Web Development - This unit gives learners an introduction to the main languages involved in web development. Learners will begin by gaining an understanding of the hardware and protocols involved with networking before developing their own websites using HTML, CSS and JavaScript.

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9.2 E-Safety - An introduction to social media platforms and how they can stay safe online. This includes looking at the pros and cons of social media, how users of social media are accountable for their actions and an insight into Sexting and Radicalisation. Learners will also study the consequences of disclosing personal information online.

Prior Learning Students will have had an introduction to HTML and CSS in Y7. This unit extends the learners knowledge of skills of creating web based multimedia.

Prior Learning

Students will have had an introduction to e-safety at KS2 and Y7. Students will extends their knowledge or using technology safely and learn about the risks of sexting, radicalisation and learning about being accountable for their actions when using the internet.

SPRINGI	CHARACTER LINKS		
9.3 Cyber Security - The learners on an eye-opening journey of discovery about techniques used by cybercriminals to steal data, disrupt systems, and infiltrate networks. The learners will start by considering the value of their data to organisations and what they might use it for. They will then look at social engineering techniques used by cybercriminals to try to trick users into giving away their personal data. The unit will look at the more common cybercrimes such as hacking, DDoS attacks, and malware, as well as looking at methods to protect ourselves and our networks against these attacks	Prior Learning Students will have covered basic internet security, phishing, the need for strong passwords etc in Y7.	Across the academic year, students are encouraged to develop respect for their ow and peers' work (moral virtues), as well as confidence	
SPRING 2	and perseverance to ascertai new skills (performance		
9.4 Python Magic - Learners will gain a basic understanding of the Python programming language. Through a series of six lessons learners will be introduced to the basic Python syntax and look at selection, loops, functions, lists and classes. Learners will be given the building blocks to extend their programming skills by adding to existing programs or extending their knowledge on Repl.it	Prior Learning Students will have used 2 different programming languages at KS3 including basic python skills in Year 8. This will be the first time they start to design games and programs using python as a larger project.	virtues).	
SUMMER 1	KEY ASSESSMENT DATES		
9.5 Multimedia - This unit is designed to provide students with the skills to create a multimedia interactive presentation for a given scenario	Prior LearningAll students at KS3 completionStudents will have had some skills and knowledge on using google suite and office suite and creating multimedia presentations in Y7.All students at KS3 completion an end of unit assessment the topic being studied, assessing students'		
SUMMER 2	knowledge, skills and		
9.6 Spreadsheet Modelling - This unit takes learners from having very little knowledge of spreadsheets to being able to confidently model data with a spreadsheet. The unit uses engaging activities to progress learners from using basic formulas to writing their own COUNTIF statements. This unit will give learners a good set of skills that they can use in computing lessons and in other subject areas	Prior Learning Students will have had some skills and knowledge on using excel in creating basic spreadsheets using formula and functions in Y8.	typically every 6 weeks acros the academic year.	

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