

Year 9 Computing

How will students be assessed?	My Target Grade is
Students will be assessed through a range of in class activities.	

Half term	Key content
1	Independent learning skills – Google Drive/classroom, online learning, e-mail etiquette, online research skills, risks of social media and impact on health and well-being. Working safely and securely (routines, Online Safety Act) and using collaboration software IT skills – students will refresh and further develop their skills in Word Processing and presentation software
2	Students will learn subject specific knowledge to provide a fundamental understanding of Information Technology, systems and computing. They will cover the following topics: • Hardware & Software • Everyday computing (e.g. interfaces/systems/data structures behind them), Malware • Cryptocurrency and e-waste
3	Students will learn about real world examples and the advantages and disadvantages of information technology, leading to a Digital World Assessment topics include: • Cyber security – malware / hackers • Being a digital citizen and the moral/ethical use of IT as well as netiquette • New technologies and current issues such as cryptocurrency, e-waste, AI Whilst learning these topics, students will apply their previous knowledge and skills to create a poster or leaflet involving research and images. File management & storage Introduction to Computer Science Python Programming knowledge and skills: • Variables • Printing • Inputs • Arithmetic operators • Looping • Selection The sequence of this may change for some Year 9 classes, there is also focus on file management and organisation of drives and workspaces Feedback on Year 9 Feb Assessment

4	Introduction to Computer Science Python Programming knowledge and skills: • Variables • Printing • Inputs • Arithmetic operators • Looping • Selection The sequence of this may change for some Year 9 classes, there is also focus on file management and organisation of drives and workspaces Feedback on Year 9 Feb Assessment • Databases and their relevance to everyday systems • System security – Authentication /password/biometrics • Importance and history of computing & STEM (research project)
5	IT Projects – Students will learn about the approach to IT projects with a specific client brief and the stages of a project for a school fundraising / enterprise project based on a bake sale IT Skills – Spreadsheets Students will develop their skills in using Spreadsheets incl. formatting, data types, cell referencing, formulae, data validation, lists and lookups, charts, buttons and integrating systems / combining use of software. Focus on end of topic Evaluation.
6	IT Skills – Holistic project. Students will complete a project based on a Phone shop, they will create their own range of IT solutions, including use of graphics, spreadsheet, presentation software with a consistent house style approach. IT & Sport – IT related activities, linking to major summer sporting events where students now use their range of IT skills, software knowledge and online research to produce a final article ready for online distribution, published/print media