**YEAR 9 CURRICULUM MAP September 2023-24**

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| **AUTUMN TERM** | | **SPRING TERM** | | **SUMMER TERM** | |
| **HALF TERM 1** | **HALF TERM 2** | **HALF TERM 1** | **HALF TERM 2** | **HALF TERM 1** | **HALF TERM 2** |
| |  | | --- | | **Advancing programming skills using Python**.  This unit builds on the knowledge gained in Year 8 using the principles of sequence, selection and iteration. Students will create shapes using iteration in Python and as an extension task, procedures are introduced.  Students then create a quiz applying their knowledge of selection and sequence. Lists are also introduced as an extension. Finally, students will write an algorithm for their own Adventure Game and then apply all of their skills to create the final code using their knowledge and imagination. | | | | | | | **Cyber security** - This unit takes the students on an eye-opening journey of discovery about techniques used by cybercriminals to steal data, disrupt systems, and infiltrate networks.  The students 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. | * **GCSE and Careers** Using ICT, students can plan GCSE options and develop awareness of careers research by using careers websites. This links with PSHE and the options process in preparation for GCSE choices for Year 10. * **Online safety** (Safer Internet Day Feb) * **Image manipulation** Students use Adobe Photoshop to look at image manipulation/precision needed/dimensions of an object and manipulating images of the correct resolution. Students go on to create digital artefacts. | **Searching and Sorting**  This small unit looks at Bubble sorting as well as Linear and Binary searches.  This unit builds on the Year 8 Logic Gates and Boolean unit. | **Creating a Website** This unit usesRocketCake to set up a website, understanding HTML code and design features needed including navigation bars, social media icons, email links, video and sound. Students will learn how websites can be made accessible to others and how the HTML code can be edited to add a clock or countdown timer to their website. | **iDEA – Digital Enterprise Award**  This unit gives students Key skills in many areas. “an international award winning programme that helps you develop digital, enterprise and employability skills …”  Through a series of online challenges, “win career-enhancing badges, unlock new opportunities and, ultimately, gain industry-recognised Award”  www.idea.org.uk |
| **PYTHON CODING ASSESSMENT** | **CYBER SECURITY PEER ASSESSMENT** | **IMAGE MANIPUALTION**  **ASSESSMENT** | **SEARCHING AND SORTING PEER ASSESSMENT** | **WEB BUILDING ASSESSMENT** | **ASSESSMENT**  **BRONZE & SILVER AWARDS** |