| | T | Ie= | Curriculum Map: Year 9 Com | | T | 1 |
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| | Half Term 1 | Half Term 2 | Half Term 3 | Half Term 4 | Half Term 5 | Half Term 6 |
| Topic | E-safety recap AppShed programming | HTML Coding | Theory Environment Using a spreadsheet to present information. Using a spreadsheet to get useful information | Artificial Intelligence (AI) | Creating an interface and reviewing. | Mini Project – Photoshop Linking with Travel & Tourism and Media studies |
| Intent | Offer students the opportunity to experience using additional applications such as AppShed and gaming and video editing software. Create opportunities for students to learn practical and transferable employability skills and knowledge which allow learners to progress on a pathway to work or to an apprenticeship. | develop diverse ambitious IT and computer -literate individuals with the ability to think commercially and creatively, to be resilient and solve problems. We give students the opportunity to experience different types of programming in the real world and explore the changing world of computer science. | Learn about important issues in the use of IT. Learn about the impacts of using IT in the real world. Using information and presenting it in a meaningful way. | Spark students' imagination through a wider knowledge of the digital world including accessibility and knowledge of the digital divide. We provide skills for working life through Information technology giving students the opportunity to be creative and learn how technologies transform lives. | develop diverse ambitious IT and computer -literate individuals with the ability to think commercially and creatively, to be resilient and solve problems. | Ensure students receive an ambitious curriculum and learn both academically and through practical application which inspire students to enter the world of Computing and IT |
| Key Knowledge | Refresh students knowledge and understanding of the threats of using online tools and the dangers of using modern technology. Use planning tools to plan an interface Learn about different requirements different groups have when using IT Risks of using Digital tools and the internet. Tools and knowledge to | Students to use HTML code to create a website. Students to understand basics of how websites are constructed and the code behind them. Students be able to add images and text. Structure of code Code for images and text Code for colours Structure using tables | Making data and information easier to view and use. Analysing data for a purpose. Consider how data is collected Using Data to find information. Converting raw data into useable information in a variety of ways. The effects on the environment of discarded IT. The resources used in making IT equipment and how they are recycled. | Understand the uses for AI Learn about data driven models in AI systems. Learn how limited data set can lead to a floored machine learning model (bias in and Bias Out) | Create an interface following plans. Create a questionnaire using forms that can be used to improve the interface Security risks when using IT. How hackers operate, ways to protect data and IT systems. Creating a product for a specific need. Linking slides together Selecting appropriate content. | Identify and products for a defined audience. Understanding key concepts of travel & Tourism Understand how to promote tourism using print |
| | plan a product such as | Colour choice for audience | | | Selecting appropriate content. | |

| | story boards and mind maps. | | Present information in a manageable way. | | | |
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| | Identifying audiences and their needs. | | Use information to make useful recommendations. Use of formatting and formulas to create information from raw data. Using formulas to process data. Creating charts to display data in an easy to view format. | | | |
| Key Skills | Identify dangers of online tools Use mind map software. Storyboard slides Identify and audience and purpose | Adding text and images Creating table Using colour Adding hyperlinks | More formatting Pivot tables Hyperlinks Macros Using data to make recommendations IF Formulas Vlookups Formatting Drop boxes Creating charts | Interpret decision trees Solving problems with machine learning models Create a model card | Adding slides Formatting images Linking pages Hyperlinks Editing designs Creating questionnaires Identifying improvements Different types of security risks What hackers are What materials go into making a computer How computers are recycled Net neutrality Issues with accessing the internet Impacts of not being able to access internet | Understanding assignments Recapping on previous material Designing and creating products Reviewing products |
| Key Vocabulary | Cyberbullying Esafety Hacking CEOP Predators Audience Purpose Storyboard Mind map Product Client | Tag Colour Head Body Title Hyperlink Emoji Center | Hyperlink Macro Pivot tables Data Recommendation Spreadsheet Sheet Formula IF Formula Vloookup PivotTable Chart Data Row, Column, Cell Format | Machine learning Decision tree Artificial intelligence Data Bias in Bias out Accuracy | Format Image Hyperlink Edit Questionnaire Open and closed questions Forms Layout Consistency Worm, Trojan, Virus, Black hat Hacker. Ransomware | Cloning Layers Magic wand tool Selection tool Images Blend Crop Repurpose Canvas Import Export Fireworks Resolution File type |

| | | | Drop Box Conditional format | | Recycling, Raw materials. RAM, CPU, Motherboard. Net Neutrality, Access, Equality, Remote working. | |
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| Key Reading | Websites PowerPoints | Websites PowerPoints | Websites PowerPoints | Websites PowerPoints Activity sheets worksheets | Websites PowerPoints | Websites PowerPoints |
| End Point | PP reminder on E-safety Audience and purpose word doc Storyboards | Students to produce a website containing images and text. | Dashboard showing data. Use of Skills | Students create a model cad to explain heir machine learning model | Students create a Interface App | Create a magazine cover to promote Bradford |
| Form of Assessment | Formative Teacher observations | Formative Teacher observation | Formative teacher observations | Formative + Quiz | Formative teacher observations | Formative + Quiz |
| Enrichment opportunities | | | , | • | , | |
| Leadership opportunities | Independent tasks Discussion on topics and issues | | Independent tasks Discussion on topics and issues | Independent tasks Discussion on topics and issues | | Independent tasks Discussion on topics and issues |