

Curriculum Map: Year 9 Computing

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Topic	E-safety recap HTML Coding	Theory Environment Using a spreadsheet to present information. Using a spreadsheet to get useful information	Unifrog Exploring careers using IT tools to develop career aspirations and self development	Artificial Intelligence (AI)	Movie Director	Creating an interface and reviewing.
Intent	Refresh knowledge and understanding of E-safety and how to stay safe online 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.	Use unifrog to explore own strengths and weakness. Use unifrog to explore own experiences that would benefit own career development Explore own gaps in knowledge Begin to make a plan for future career and subject choices.	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.	Provide skill through information technology. Opportunities to experience using different software applications Opportunities to be imaginative within the digital world.	develop diverse ambitious IT and computer -literate individuals with the ability to think commercially and creatively, to be resilient and solve problems.
Lesson Intentions	Week 1 – Investigate how colours and symbols can be used in apps Week 2 - Basic HTML Getting started Week 3 – using bold and paragraph tags Week 4 – Using colour in HTML	Week 1 and 2 – How do devices affect the environment Week 3 – What is data and basic spreadsheet use Week 4 – creating pivot charts Week 5 and 6 – Creating a Dashboard			Week 1 – Create a proposal for a movie Week 2 – Collect resources for a movie Week 3 and 4 – Create a movie using still images Week 5 – Create a poster to advertise a movie Week 6 – Write a review of a movie	Week 1 – Research interface design considerations Week 2 Create a PowerPoint for a business idea pitch Week 3 - Create a PowerPoint for a business idea pitch

	Week 5 – Using font sizes in HTML Weke 6 – Adding an image in HTML Week 7 – adding a table in HTML					Week 4 - Create a PowerPoint for a business idea pitch Week 5 - Create a PowerPoint for a business idea pitch Week 6 - Create a PowerPoint for a business idea pitch
Key Knowledge	Refresh students knowledge and understanding of the threats of using online tools and the dangers of using modern technology. 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 Colour choice for audience	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. Present information in a manageable way. 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.		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)	Be able to write a brief outline for a movie with a story based narrative aimed at a specific user group. Be able to story board a movie identifying key assets required and identify suitable assets for the audience and story Construct a video using still images in a way that tells a story with a clear narrative that is aimed at the target age group. Advertise a movie in a suitable way to attract viewers that is suitable for the target audience. Write a review for a movie from the point of view of a movie critic. Identifying areas the movie does well and areas it could improve. Writing should be in the correct style and suitable for a magazine.	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

Key Skills	Identify dangers of online tools 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	Write an outline for a movie aimed at a suitable audience. Collect resources for a movie Construct a movie using appropriate software to tell a story based on plans. Advertise a movie using Publisher. Write a review with a suitable layout.	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
Key Vocabulary	Cyberbullying Esafety Hacking CEOP Predators Tag Colour Head Body Title Hyperlink Emoji Center	Hyperlink Macro Pivot tables Data Recommendation Spreadsheet Sheet Formula IF Formula Vlookup PivotTable Chart Data Row, Column, Cell Format Drop Box Conditional format		Machine learning Decision tree Artificial intelligence Data Bias in Bias out Accuracy	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 Recycling, Raw materials. RAM, CPU, Motherboard. Net Neutrality, Access, Equality, Remote working.
Key Reading	Websites PowerPoints	Websites PowerPoints		Websites PowerPoints Activity sheets worksheets	Website PowerPoints	Websites PowerPoints
End Point	PP reminder on E-safety Students to produce a website containing images and text.	Dashboard showing data. Use of Skills		Students create a model card to explain their machine learning model	A movie with a storyline. A poster to advertise the movie A magazine style review	Students create a Interface App

	Storyboards					
Links to British Values	Individual Liberty, Mutual respect, Rule of law	Individual liberty through accessibility		Rule of law, respect	Rule of law and respect	Individual liberty, mutual respect, democracy
Links to careers	Safe use of computers in the work place and in society Web design, coding, STEM related jobs	Accountancy, business management		It related industries, coding. Logic/stem based industries	Media, creative industries	Coding, creative industries. Product design, Business management
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	Independent tasks Discussion on topics and issues