



KS2 National Curriculum

Computer Science

- Design and debug programs, including those that control physical systems, and solve problems by breaking them down.
- Employ sequence, selection, repetition, variables, input, and output in programs.
- Apply logical reasoning to understand simple algorithms and fix errors in algorithms and programs.
- Gain an understanding of computer networks like the internet, its services such as the World Wide Web, and its uses for communication and collaboration.

Information Technology

- Effectively use search tools, understand result selection, and critically evaluate digital content.
- Choose and combine different software and internet services on various devices to create programs, systems, and content for specific purposes.
- Use digital tools to gather, analyse, evaluate, and present data and information.

Digital Literacy

- Utilise technology safely, respectfully, and responsibly.
- Recognize appropriate and inappropriate online behavior.
- Know how to report concerns about online content and contact.

YEAR 6

Computer Science	<ul style="list-style-type: none"> Turn a more complex programming task into an algorithm by identifying the important aspects of the task and then decomposing them in a logical way using their knowledge of possible coding structures and applying skills from previous programs. I can test and debug my program as I go and use logical methods to identify the cause of bugs. I can demonstrate a systematic approach to try to identify a particular line of code causing a problem. I can translate algorithms that include sequence, selection and repetition into code. I can use a wider range of variables in coding: outputs such as sound and movement, inputs from the user of the program such as button clicks and the value of functions. I can interpret a program in parts and can make logical attempts to put the separate parts of a complex algorithm together to explain the program as a whole. I understand and can explain in some depth the difference between the internet and the World Wide Web. I know what a WAN and LAN are and can describe how they access the internet in school. 	Purple Mash Unit 6.1: Coding - 2Code Purple Mash Unit 6.2: Online Safety 2DIY 3D 2DIY 2Code 2Blog Purple Mash Unit 6.4 Blogging Weeks - 2Blog Purple Mash Unit 6.5 Text Adventures - 2Code, 2Connect, 2Create a Story, Writing Templates Purple Mash Unit 6.6 Networks - 2Connect (Mind Map) Writing Templates
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Information Technology	<ul style="list-style-type: none"> I can apply filters when searching for digital content. I can explain in detail how credible a webpage is and the information it contains. I can compare a range of digital content sources and are able to rate them in terms of content quality and accuracy. I can use critical thinking skills in everyday use of online communication. I can make clear connections to the audience when designing and creating digital content. I can identify the purpose of writing a blog and its key features. I can design and create my own blogs to become a content creator on the internet. I can use criteria to evaluate the quality of digital solutions and are able to identify improvements, making some refinements. 	Purple Mash Unit 6.1: Coding - 2Code Purple Mash Unit 6.2: Online Safety - 2DIY 3D 2DIY 2Code 2Blog Purple Mash Unit 6.3: Spreadsheets - 2Calculate Purple Mash 6.4: Blogging - 2Blog Purple Mash Unit 6.5: Text Adventures - 2Code, 2Connect, 2Create a Story, Writing Templates Purple Mash Unit 6.7: Quizzing - 2DIY 2Quiz Text Toolkit 2Investigate (database)
Digital Literacy	<ul style="list-style-type: none"> I can demonstrate the safe and respectful use of a range of different technologies and online services. I can identify more discreet inappropriate behaviours through developing critical thinking. I recognise the value in preserving privacy when online for my own and other people's safety. 	Purple Mash Unit 6.2: Online Safety - 2DIY 3D 2DIY 2Code 2Blog Purple Mash 6.4: Blogging - 2Blog

Assessment End Points Year 6

Knowledge	Skills
<ul style="list-style-type: none"> I know the difference between the internet and the World Wide Web. I know that digital content design links to the intended audience. I know the value in preserving privacy when online and what online behaviour is appropriate. 	<ul style="list-style-type: none"> I can translate algorithms that include sequence, selection and repetition into code. I can explain in detail how credible a webpage is and the information it contains, reflecting on its quality and accuracy. I can design and create my own blog to become a content creator on the internet. I can decompose coding structures and debug programmes using a systematic approach.