

Computing long term plan 2020/2021

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1					
1.1 Online Safety and Exploring Purple Mash I can use technology safely and respectfully I can keep personal information private I know where to go for help when I am worried about something I see online	1.5 Maze Explorers I understand how to create and debug a set of instructions I understand how to use the direction keys	1.6 Animated Stories I can use technology to create and store digital content I can add animation and sound to a story	1.2 Grouping And Sorting I can use technology to organise, store and manipulate digital content I can sort items using a range of criteria	1.8 Spreadsheets I can use technology to organise, store, manipulate and retrieve digital content I can enter data into spreadsheet cells and use control tools	1.9 Technology Outside School I recognise common uses of information technology beyond school
Year 2					
2.2 Online Safety I can use technology safely and respectfully I can keep personal information private I know where to go for help when I am worried about something I see online	2.1 Coding Crash Course I understand what an algorithm is I know what debugging is and can debug programs	2.6 Creating Pictures I can use technology to create and store digital content I can recreate the Impressionist style of art digitally	2.4 Questioning I can use technology to organise, store manipulate and retrieve digital content I know about data handling tools that give more information than pictograms	2.5 Effective Searching I can use technology purposefully to retrieve digital content I understand the terminology associated with searching	2.8 Presenting Ideas I can use technology purposefully to organise, store, manipulate and retrieve digital content I can explore how a story can be presented in different ways
Year 3					
3.2 Online Safety I can use technology safely and respectfully I can recognise acceptable/unacceptable behaviour I can identify a range of ways to report concerns about content and contact	3.1 Coding Crash Course I can design algorithms using flowcharts I can use selection, variables and repeat commands	3.4 Touch Typing I understand typing terminology I know how to use the home, top and bottom row keys	3.5 Email I can use technology safely and respectfully I can use a variety of software to present information	3.3 Spreadsheets Crash Course I can select and use a variety of software to collect, analyse and present data and information I can use graphs to present data	3.7 Simulations I can design, write and debug programs that simulate physical systems
Year 4					
4.2 Online Safety I can use technology safely and respectfully I can recognise acceptable/unacceptable behaviour I can identify a range of ways to report concerns about content and contact	4.1 Coding Crash Course I can design, write and debug programs and solve problems by decomposing them into smaller parts I can use flowcharts for design of algorithms including selection	4.4 Writing For Different Audiences I can collect, analyse, evaluate and present data and information I can use a simulated scenario to produce a news report	4.6 Animation I can combine a variety of software on a range of digital devices to design content and present information I can create and blog about stop motion animation	4.7 Effective Searching I can use search technologies effectively, and appreciate how results are selected and ranked I can assess whether an information source is true and reliable	4.8 Hardware Investigators I understand the different parts that make up a computer
Year 5					
5.2 Online Safety I can use technology safely and respectfully I can recognise acceptable/unacceptable behaviour I can identify a range of ways to report concerns about content and contact	5.1 Coding Crash Course I can create a program that simulates a physical system using decomposition I can explore string and text variable types so that the most appropriate can be used in programs	5.3 Spreadsheets Crash Course I can select and use a variety of software to collect, analyse and present data and information I can add a formula to a cell to automatically make a calculation	5.5 Game Creator I can create content that accomplishes given goals I can create and share a game I can evaluate others' games	5.4 Databases I can design and create systems to collect, analyse and present data and information I can search for information in a database	5.7 Concept Maps I can use a variety of programs to present information I understand the need for visual representation when generating and discussing complex ideas
Year 6					
6.2 Online Safety I can use technology safely and respectfully I can recognise acceptable/unacceptable behaviour I can identify a range of ways to report concerns about content and contact	6.1 Coding Crash Course I can use the program design process, including flowcharts, to develop algorithms for more complex programs I can use and understand abstraction and decomposition to define the important aspects of the program	6.4 Blogging I can select, use and combine a variety of software (including internet services) on a range of digital devices to create content that accomplishes given goals, including evaluating and presenting information To plan the theme for a blog, write the content and evaluate the impact on the reader	6.6 Networks To understand computer networks; how they can provide multiple services; and the opportunities they offer for communication and collaboration To think about what the future might hold	6.5 Text Adventures I can design, write and debug programs that accomplish specific goals I can use logical reasoning to explain how some simple algorithms work I can detect and correct errors in algorithms and programs I know what a text adventure is and can create a story-based adventure	6.7 Quizzing I can use software to design a quiz which requires the player to search a database I can create a tool for organising and representing interconnected knowledge