

## **Upper KS2 Progressions of Skills-Computing**

Year B	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Computing Topic National Curriculum Subject Content	What did the Romans do for us?(History)	Masterpiece or Monstrosity? (Art)	How can I help save the world? (Science/Geography)	Who were the Mayans? (History)	Can you generate, Design, Create? (DT)	Did Eyam Save England? (History)			
Global Goals	9. Industry, Innovation and infrastructure	16. Peace, Justice and Strong Intuitions	13. Climate Action 15. Life on Land 14.Life below water	11 Sustainable Cities and Communities	12. Responsible consumption and production	8. Decent Work and Economic Growth.			
British Values	Democracy	Rule of Law	Individual Liberty	Mutual Respect	Democracy	Rule of Law			
Purple Mash Unit	5.2 Online Safety	5.6 3D Modelling	5.8 Word Processing Google Docs	5.7 Concept Maps	6.3 Spreadsheets	6.5 Text Adventures			
	Knowledge								
Computer Science	Understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.					Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.  Use sequence, selection and repetition in programs; work with variables and various forms of input and output.  Use logical reasoning to explain how some simple algorithms work			



	Ī		i	i	i				
						and to detect and correct errors in algorithms and programs.			
Information Technology		Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.			
Digital Literacy	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.								
Skills Skills									
	To gain a greater understanding of the impact that sharing digital content can have. To review sources of support when using technology. To review children's responsibility to one another in their online behaviour  To know how to maintain secure passwords. To	To be introduced to 2Design and Make.  To explore the effect of moving points when designing.  To understand designing for a purpose  To understand printing and making.	Making a document from a blank page Inserting Images: Considering Copyright Editing Images in Word Adding the text Finishing touches Presenting information	To understand the need for visual representation when generating and discussing complex ideas.  To understand and use the correct vocabulary when creating a concept map.  To create a concept map.	To use a spreadsheet to investigate the probability of the results of throwing many dice.  To use a spreadsheet to calculate the discount and final prices in a sale. Create a formula to help work out the prices of items in the sale.  To use a spreadsheet to	To find out what a text-based adventure game is and to explore an example made in 2Create a Story.  To use 2Connect to plan a 'Choose your own Adventure' type story.  To use 2Connect plans for a story adventure to make the adventure			



understand the advantages, disadvantages, permissions and purposes of altering an image digitally and the reasons for this. To be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online  To learn about how to reference sources in their work To search the Internet with a consideration for the reliability of the results of sources to check validity and understand the impact of incorrect information. Ensuring reliability through using different methods of communication	or a ch has s to