## Knowledge & Skills

Ebor Progression of Knowledge and Skills - Strand Progression							
Strand	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Control Systems	Understand what algorithms are Create simple programmes	Understand that algorithms are implemented as programmes on digital devices.  Understand that programmes run by following precise instructions  Use logical reasoning to predict the behaviour of programmes  Debug simple programmes	Understand that programmes can be applied to varies forms of input and output.  Write programmes that create specific goals  Use sequence in programmes  Work with various forms of input and output	Understand what computer networks are, e.g. the internet  Experiment with variables to control models  Design, write and debug programmes that perform specific goals.  Use sequence, selection and repetition in programs; work with variables.  Make accurate predictions about what I think will happen	Understand how computer networks work including the internet  Combine sequences of instructions to turn an external device on and off  Use logical reasoning to detect errors in algorithms  Use selection accurately within programs	Understand that sensors can be used within programmes.  I can explore 'what if' questions by planning different scenarios for controlled devices  Use logical reasoning to detect errors in more complex algorithms  Combine a variable with relational operators (< = >) to determine when a program changes, e.g. if score > 5, say "well done"  Design a physical computing system that uses sensors, e.g. using a flow chart  Refine a program based on end user feedback.	
Information Technology	Understand that technology can be used to create and store digital content  Use technology to create content  Use technology to store digital content  Use a mouse or trackpad effectively to navigate websites  Save and reopen work on a digital device	Understand that technology can be used edit, amend or adapt digital content.  Discuss and explore how to use ICT to organise, present and understand data as a simple graph.  Use technology to create, communicate and collaborate  Use ICT to source, generate and amend images.  Begin to change or enhance photographs and pictures (crop, recolour).  Create a simple animation using still images	Understand that digital content can be used to find, retrieve and present information.  Use search technology to communicate effectively  Use technology to collect information  Use a database to retrieve information  Present data in a range of ways to convey information  Use technology to collaborate on a task  Edit digital content in response	Understand that information can be presented in different ways using various platforms and programmes.  Select and use software to accomplish given goals  Collect and present data in different ways  Design and create digital content for a specific purpose  Evaluate and analyse information  Use technology to collaborate in different ways  Use ICT to compose music or	Understand that search results are ranked.  Understand the benefits of technology to collaborate with others  Recognise an audience when designing and creating digital content  Select and combine software on a range of devices  Generate, amend and combine visual media from different sources for a specific audience or task.  Create a movie including still images and sound and add	Understand and appreciate how search results are ranked and how this affects the end user.  Discuss and explore the use of ICT to sort, organise and classify objects based on their properties.  Select and combine software on a range of devices  Collaborate with individuals and groups to create digital content for a specific purpose.  Use ICT to create and modify charts quickly and easily.  Create databases, retrieve	

		Take digital photographs and record video  Use software to explore sound and musical phrases.	to feedback	sounds including creating melodies  Storyboard and shoot a short stop motion animated sequence.  Use a range of tools to edit and enhance media for particular effect	suitable titles and transitions.  Capture/review different images, considering lighting, positioning and angle appropriate to a given task/audience.  Use filters in a database to find out specific information  Identify and use appropriate hardware and software to fulfil a specific task  Create different types of graphs and charts that are appropriate to the data I am using; I can use them to interpret and answer a specific question.  I can select and use suitable software and hardware to produce a multimedia soundtrack.	information and draw conclusions based on results entered.  Find suitable images, video and sounds from appropriate sources, taking into account copyright issues.  Remix and edit a range of media to create content.  Use appropriate ICT resources to compose music or sounds to accompany a story.  Choose appropriate hardware to capture and review a range of images, considering lighting, positioning, sound quality and angle.
Digital Literacy	Recognise common uses of technology beyond school  Use technology safely Log on to a computer  Keep personal information private	Understand where/how to seek help when they have concerns about content  Use technology respectfully	Recognise the benefits and risks of different apps and websites  Understand the importance of a good password  Understand the dangers of spending too long online and the importance of regular screen breaks.  Understand when to share personal information and when not to  Use technology responsibly Identify a range of ways to share concerns about conduct	Recognise acceptable and unacceptable behaviour using technology  Understand the opportunities technology offers for communication  Compose emails  Know how to respond to unpleasant communications via texts, IM, email or chat rooms.  Be discerning in evaluating digital content	Know where to find copyright free images and audio, and why this is important  Understand the issues of copyright and the importance of acknowledging sources.  Understand that everything we do online leaves a digital footprint that can last forever.  Know what to do and who to contact if we see something that upsets / concerns us online.  Understand privacy settings and what pictures are appropriate to share online.	Understand the impact of an individual sending or uploading unkind or inappropriate content.  Understand what 'Plagiarism' means and that it is important to acknowledge sources.  Understand that not all information on the internet is legal to use or copy  Understand that we are all digital citizens and the potential impact and influence we can have on the outside world  Know the meaning of common website extensions

	Discuss the benefits and dangers of communicating online/through different forms of technology.  Know the meaning of common website extensions (.org, . net. Gov etc)  Understand what makes a strong password and why this is important at school and in the wider world  Beginning to question information based on author and location; recognise different viewpoints and the impact of incorrect data.  Share and exchange ideas using emails/electronic communication respectfully.  Cirtically evaluate websites for reliability of information/ bias and authenticity to include use of social media  Demonstrate responsible use of online services and technologies, and know a range of ways to report concerns
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