

Subject: Computing Progression of Skills Subject Lead: E Groom Twitter Hashtag: <i>ristcomp</i>						
Strand	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Control Systems	<p>Understand what algorithms are</p> <p>Create simple programmes</p>	<p>Use logical reasoning to predict the behaviour of programmes</p> <p>Debug simple programmes</p> <p>Understand that algorithms are implemented as programmes on digital devices.</p> <p>Understand that programmes run by following precise instructions</p>	<p>Write programmes that create specific goals</p> <p>Use sequence in programmes</p> <p>Work with various forms of input and output</p>	<p>I can experiment with variables to control models</p> <p>Design, write and debug programmes that perform specific goals.</p> <p>Use sequence, selection and repetition in programs; work with variables.</p> <p>I can make accurate predictions about what I think will happen</p> <p>Understand what computer networks are, e.g. the internet</p>	<p>I can combine sequences of instructions to turn an external device on and off</p> <p>Use logical reasoning to detect errors in algorithms</p> <p>Understand how computer networks work including the internet</p> <p>Use selection within programs</p>	<p>Use logical reasoning to detect errors in algorithms</p> <p>Combine a variable with relational operators (&lt; = &gt;) to determine when a program changes, e.g. if score &gt; 5, say "well done"</p> <p>Can design a physical computing system that uses sensors, e.g. using a flow chart</p> <p>Refine a program based on end user feedback.</p> <p>I can explore 'what if' questions by planning different scenarios for controlled devices</p>
Information Technology	<p>Use technology to create content</p> <p>Use technology to store digital content</p> <p>Use a mouse or trackpad effectively to navigate websites</p> <p>Save and reopen work on a digital device</p>	<p>Use technology to create, communicate and collaborate</p> <p>Use ICT to source, generate and amend images.</p> <p>Begin to change or enhance photographs and pictures (crop, recolour).</p> <p>Create a simple animation using still images</p> <p>Take digital photographs and record video</p>	<p>Use search technology to communicate effectively</p> <p>Use technology to collect information</p> <p>Use a database to retrieve information</p> <p>Present data in a range of ways to convey information</p> <p>Use technology to</p>	<p>Select and use software to accomplish given goals</p> <p>Collect and present data in different ways</p> <p>Design and create digital content for a specific purpose</p> <p>Evaluate and analyse information</p> <p>Use technology to collaborate in different ways</p>	<p>Understand how search results are ranked</p> <p>Select and combine software on a range of devices</p> <p>Generate, amend and combine visual media from different sources for a specific audience or task.</p> <p>Create a movie including still images and sound and add suitable titles and transitions.</p>	<p>Appreciate how search results are ranked</p> <p>Select and combine software on a range of devices</p> <p>Collaborate with individuals and groups to create digital content for a specific purpose.</p> <p>Discuss and explore the use of ICT to sort, organise and classify objects based on their properties.</p>

		<p>Use software to explore sound and musical phrases.</p> <p>Discuss and explore how to use ICT to organise, present and understand data as a simple graph.</p>	<p>collaborate on a task</p> <p>Edit digital content in response to feedback</p>	<p>Use ICT to compose music or sounds including creating melodies</p> <p>Storyboard and shoot a short stop motion animated sequence.</p> <p>Use a range of tools to edit and enhance media for particular effect</p>	<p>Capture/review different images, considering lighting, positioning and angle appropriate to a given task/audience.</p> <p>Understand the benefits of technology to collaborate with others</p> <p>Use filters in a database to find out specific information</p> <p>Recognise an audience when designing and creating digital content</p> <p>Identify and use appropriate hardware and software to fulfil a specific task</p> <p>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.</p> <p>I can select and use suitable software and hardware to produce a multimedia soundtrack.</p>	<p>Use ICT to create and modify charts quickly and easily.</p> <p>Create databases, retrieve information and draw conclusions based on results entered.</p> <p>Find suitable images, video and sounds from appropriate sources, taking into account copyright issues.</p> <p>Remix and edit a range of media to create content.</p> <p>Use appropriate ICT resources to compose music or sounds to accompany a story.</p> <p>Choose appropriate hardware to capture and review a range of images, considering lighting, positioning, sound quality and angle.</p>
Digital Literacy	<p>Use technology safely</p> <p>Log on to a computer</p> <p>Keep personal information private</p>	<p>Use technology respectfully</p> <p>Understand where/how to seek help when they have concerns about content</p>	<p>Use technology responsibly</p> <p>Identify a range of ways to share concerns about conduct</p> <p>Recognise the</p>	<p>I recognise acceptable and unacceptable behaviour using technology</p> <p>Compose emails</p> <p>Know how to respond to unpleasant</p>	<p>Know where to find copyright free images and audio, and why this is important</p> <p>Beginning to question information based on author and location;</p>	<p>Critically evaluate websites for reliability of information/ bias and authenticity to include use of social media</p> <p>Demonstrate responsible use of online services and technologies, and know a</p>

	<p>Recognise common uses of technology beyond school</p>		<p>benefits and risks of different apps and websites</p> <p>Understand the importance of a good password</p> <p>Understand the dangers of spending too long online and the importance of regular screen breaks.</p> <p>Understand when to share personal information and when not to</p>	<p>communications via texts, IM, email or chat rooms.</p> <p>Understand the opportunities technology offers for communication</p> <p>Be discerning in evaluating digital content</p>	<p>recognise different viewpoints and the impact of incorrect data.</p> <p>Share and exchange ideas using emails/electronic communication respectfully.</p> <p>Understand the issues of copyright and the importance of acknowledging sources.</p> <p>Understand that everything we do online leaves a digital footprint that can last forever</p> <p>Know what to do and who to contact if we see something that upsets / concerns us online.</p> <p>Understand privacy settings and what pictures are appropriate to share online.</p> <p>Discuss the benefits and dangers of communicating online/through different forms of technology.</p> <p>Know the meaning of common website extensions (.org, . net. Gov etc)</p> <p>Understand what makes a strong password and why this is important at school and in the wider world</p>	<p>range of ways to report concerns</p> <p>Understand the impact of an individual sending or uploading unkind or inappropriate content.</p> <p>I can produce formal or informal messages, appropriate to the task</p> <p>Understand what 'Plagiarism' means and that it is important to acknowledge sources.</p> <p>Understand that not all information on the internet is legal to use or copy</p> <p>Understand that we are all digital citizens and the potential impact and influence we can have on the outside world</p> <p>Know the meaning of common website extensions (.org, . net. Gov etc) Identify secure servers (padlock such as internet banking).</p> <p>Become increasingly savvy online consumers: know that algorithms are used to track online activities with a view to targeting advertising and information</p>
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