











Chesterfield Primary School- Computing Curriculum Overview

Online safety- Kapow e-safety unit to be taught on Safer Internet Day. Also evident through PSHE curriculum (Digital Me Unit)
Programmer and Coding wow afternoon every September

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y e a r 1	<p style="color: red;">Children are to use the first term exploring Seesaw and chromebooks.</p> <p style="text-align: center;">Improving Mouse Skills Digital Literacy Use technology purposefully Use technology safely and respectfully</p> <p style="text-align: center;">Information Technology Recognise common uses of information technology beyond school Douglas Englebert</p> 	<p style="text-align: center;">Programming: Beebots Computer Science Understand what algorithms are Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs Ada Lovelace</p> 	<p style="text-align: center;">Introduction to Data Digital Literacy Use technology purposefully Information Technology Recognise common uses of information technology beyond school</p>			
Y e a r 2	<p style="text-align: center;">What is a computer? Information technology Recognise common uses of information technology beyond school Computer Science Understand what algorithms are</p>  <p style="text-align: center;">Mark Dean</p>	<p style="text-align: center;">Algorithms and Debugging Computer Science Understand what algorithms are Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs</p> 	<p style="text-align: center;">International Space Station Digital Literacy Use technology purposefully Computer Science Understand what algorithms are</p> <p style="text-align: center;">Margaret Hamilton</p> 			





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Y e a r 3	<p>Networks and the Internet Information Technology</p> <p>Understand computer networks including the internet and the opportunities they offer for collaboration Use search engines effectively by evaluating digital content</p> <p>Tim Berners-Lee</p>  <p style="text-align: center;">(10 weeks)</p>	<p>Programming: Scratch Computer Science</p> <p>Design, write and debug programs for specific goals and decompose problems Use sequence, selection and repetition in programs and work with variables Use logical reasoning to detect and correct errors in algorithms</p> <p style="text-align: center;">(10 weeks)</p>	<p>Journey Inside a Computer Information Technology</p> <p>Understand computer networks including the internet and the opportunities they offer for collaboration Computer Science</p> <p>Design, write and debug programs for specific goals and decompose problems Use logical reasoning to detect and correct errors in algorithms</p>  <p style="text-align: center;">(10 weeks)</p>	<p>Video Trailers Digital Literacy</p> <p>Use search engines effectively by evaluating by digital content Select, use and combine a variety of software to create content that accomplishes given goals</p>  <p style="text-align: center;">Steve Jobs (9 weeks)</p>
Y e a r 4	<p>Collaborative Learning Digital Literacy</p> <p>Understand computer networks including the internet and the opportunities they offer for collaboration Select, use and combine a variety of software to create content that accomplishes given goals</p> <p style="text-align: center;">(10 weeks)</p>	<p>Further coding with Scratch Computer Science</p> <p>Design, write and debug programs for specific goals and decompose problems Use sequence, selection and repetition in programs and work with variables Use logical reasoning to detect and correct errors in algorithms</p> <p style="text-align: center;">Charles Babbage</p>  <p style="text-align: center;">(10 weeks)</p>	<p>HTML Digital Literacy</p> <p>Use technology safely and respectfully, recognising acceptable behaviour Computer Science</p> <p>Design, write and debug programs for specific goals and decompose problems Use sequence, selection and repetition in programs and work with variables Use logical reasoning to detect and correct errors in algorithms</p> <p style="text-align: center;">(10 weeks)</p>	<p>Computational Thinking Computer Science</p> <p>Design, write and debug programs for specific goals and decompose problems Use sequence, selection and repetition in programs and work with variables Use logical reasoning to detect and correct errors in algorithms</p>  <p style="text-align: center;">Grace Hopper (9 weeks)</p>
Y e a r 5	<p>Search Engines Digital Literacy</p> <p>Understand computer networks including the internet and the opportunities they offer for collaboration</p>	<p>Programming Music Digital Literacy</p> <p>Select, use and combine a variety of software to create content that accomplishes given goals Computer Science</p> <p>Design, write and debug programs for specific goals and decompose problems Use sequence, selection and repetition in programs and work with variables</p>	<p>Mars Rover 1 Digital Literacy</p> <p>Select, use and combine a variety of software to create content that accomplishes given goals Information Technology</p> <p>Understand computer networks including the</p>	<p>Stop Motion Animation Digital Literacy</p> <p>Use technology purposefully to create digital content Information Technology</p> <p>Understand how to use technology to take photos Computer Science</p> <p>Consider sequence and selection of frames when editing work</p> <p style="text-align: center;">(9 weeks)</p>

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	<p>Use search engines effectively by evaluating digital content Use technology safely and respectfully, recognising acceptable behaviour</p> <p style="text-align: center;">Sergey Brin</p>  <p style="text-align: center;">(10 weeks)</p>	<p>Use logical reasoning to detect and correct errors in algorithms</p> <p style="text-align: center;">(10 weeks)</p>	<p>internet and the opportunities they offer for collaboration</p>  <p style="text-align: center;">Katherine Johnson (10 weeks)</p>	
Y e a r 6	 <p style="text-align: center;">Bletchley Park Digital Literacy</p> <p>Use search engines effectively by evaluating digital content Use technology safely and respectfully, recognising acceptable behaviour</p> <p style="text-align: center;">Information Technology</p> <p>Understand computer networks including the internet and the opportunities they offer for collaboration</p> <p style="text-align: center;">Computer Science</p> <p>Select, use and combine a variety of software to create content that accomplishes given goals</p> <p style="text-align: center;">Educational Visit: Bletchley Park (Autumn 1 and 2)</p>	<p style="text-align: center;">Intro to Python Computer Science</p> <p>Design, write and debug programs for specific goals and decompose problems Use sequence, selection and repetition in programs and work with variables Use logical reasoning to detect and correct errors in algorithms</p>  <p style="text-align: center;">(Spring 1 and 2)</p>	<p style="text-align: center;">Big Data 1 Digital Literacy</p> <p>Use technology safely and respectfully, recognising acceptable behaviour Select, use and combine a variety of software to create content that accomplishes given goals</p> <p style="text-align: center;">Information Technology</p> <p>Understand computer networks including the internet and the opportunities they offer for collaboration</p>	<p style="text-align: center;">History of Computers Digital Literacy</p> <p>Editing sound recordings for specific purpose. Information Technology Learning about the history of computers and how they evolve over time.</p> <p style="text-align: center;">Philip Don Estridge</p> 