

Ashley Junior School Computing Curriculum

Combining: Computing Science (CS), E-Safety (ES), Digital Literacy (DL), Information Technology (IT)

	Autumn Term	Spring Term	Summer Term
	<ul style="list-style-type: none"> • All year groups are reminded of E-safety in all elements. • An E-safety talk from an external provider occurs at least once a year for all pupils. 		
3	<p>(IT) Stop Motion / iMotion / iMovie</p> <p>(CS) Programming & Coding (Scratch Jnr)</p> <p>Internet Research – sequencing events using flow charts (IT) (ES)</p> <p>Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Design write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p>	<p>Internet research, sequencing events using flowcharts (IT) (ES)</p> <p>(IT/DL/ES) Timeline Eons Programming & Coding</p> <p>(ICT/DL/ES) Feelings, Emotions & Conflict</p> <p>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.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p>	<p>(CS) Programming & Coding- Scratch Jnr</p> <p>Stop Motion / iMotion / iMovie- Iron Man animation (IT)</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Design write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p>

4	<p>(IT) Net Search Engines (DL)</p> <p>(CS) Programming: Scratch Jnr,</p> <p>(IT)What is the Internet & How does it work, Introduce Algorithms and Logical reasoning.</p> <p>Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>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.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Design write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p>	<p>Internet Research – including sequencing events, (IT) (ES)</p> <p>(DL) Analysing, evaluating and exploring software opportunities. Scratch Jnr, BBC Dr Who, http://TimeTravellerKids, Time Line Eons – App, (CS)</p> <p>(IT)Animation – iMotion/iMovie.</p> <p>(CS)Algorithms and Logical reasoning to explain how some simple algorithms work and to detect and correct errors.</p> <p>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.</p> <p>Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p>	<p>(CS) Introduce Scratch and Tynker-Design, write, code and debug programmes.</p> <p>Digital Data and Data Statistics, (DL)</p> <p>(IT)Animation – iMotion/iMovie plus editing production.</p> <p>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.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Design write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p>
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5	<p>Internet Research – including sequencing events, (IT) (ES) (CS)</p> <p>(DL) Analysing, evaluating and exploring software opportunities: Time Line Eons – App, KS2 Bitesize, http:TimeTravellerKids and introduce Scratch and Tynker (CS)</p> <p>(CS) Understanding coding and how do we get computers to do what we want then to do?</p> <p>Introduce Digital Data and Data Statistics. What are Statistics? (IT) (DL)</p> <p>Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>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.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p>	<p>What are Statistics, collecting organising and analysing. (IT) (ES) (CS)</p> <p>Internet Research – including sequencing events. (IT) (ES)</p> <p>(CS)Understand computer networks including the internet- Provision of multiple services (ES)</p> <p>(IT)Animation – iMotion/iMovie. Scratch and Tynker,</p> <p>(CS)Hour of Code - Algorithms</p> <p>Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>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.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Design write and debug programs that accomplish</p>	<p>(IT)Stop Motion/iMotion/iMovie for animation</p> <p>(CS)Design, write, code-BBC Dr Who game maker/programmer. (IT)</p> <p>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.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Design write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p>
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6	<p>Use logical reasoning to explain how some simple algorithms use - www, software, search engines and Apps. (CS) (IT) (DL) (ES)</p> <p>(IT)Introduce Digital Data and Data Statistics. What are Statistics?</p> <p>Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Design write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p>	<p>(IT+DL)Discuss how the internet is used for communication.</p> <p>(IT)What are Statistics, collecting organising and analysing Introduction of Excel Spreadsheets including formulae and Table/Grid Reports. (CS)</p> <p>(ES) Discuss the importance of safe internet and technology usage and who to contact if you have any concerns.</p> <p>Use technology safely, respectfully and responsibly. Recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p> <p>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.</p> <p>Use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content.</p> <p>Understand computer networks including the internet; how they can provide multiple services,</p>	<p>(IT)What are Statistics, collecting organising and analysing Introduction of Excel Spreadsheets including formulae and Table/Grid Reports. Completing four training Tasks and being able to say “I know what a spreadsheet is, I can enter simple data into a spreadsheet, and I can use simple formulae to perform calculations.” (CS)</p> <p>(ES) Discuss the importance of safe internet and technology usage and who to contact if you have any concerns.</p> <p>Use technology safely, respectfully and responsibly. Recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p> <p>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.</p> <p>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.</p>

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Key

Blue: topic being studied

Black: national curriculum

Purple: key ideas pupils must know to achieve objectives

Red: SMSC link and opportunities