

### Computing – Long Term Plan (Y4)

Term	Mr. P ICT – DARES Project Link/Project Evolve E-safety	Skills/Knowledge cover from Mr. P ICT/Project Evolve E-safety	KS2 National Curriculum Coverage (1.1-1.7)
Autumn 1	Lesson 1 = Knowledge Map; assess understanding and plan lessons. To be added to teams folder: <a href="#">Year group knowledge map</a> Lesson 2 – 6 = <a href="#">Lesson plans from the knowledge map</a>  *Subject lead to check lesson plans/curriculum coverage		1.7 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
Autumn 2	<a href="#">Programming – Makey Makey Games Controller</a>	<b>Computational Thinking</b> <ul style="list-style-type: none"> <li>I know how to use abstraction to focus on what's important in my design</li> <li>I know how to write more precise algorithms for use when programming</li> </ul> <b>Coding/Programming</b> <ul style="list-style-type: none"> <li>I know how to use repetition in programs</li> <li>I know how to use simple selection in programs</li> <li>I know how to work with a variety of inputs and outputs</li> <li>I know how to use logical reasoning to systematically detect and correct errors in programs</li> </ul>	1.1-design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts  1.2- use sequence, selection, and repetition in programs; work with variables and various forms of input and output  1.3-use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

Spring 1	<a href="#">Animation - Line Draw Animation</a>	<p><b>Animation</b></p> <ul style="list-style-type: none"> <li>I know how to create a presentation demonstrating my understanding with a range of media</li> <li>I know how to use line draw tool to create animations</li> </ul> <p><b>Video Creation</b></p> <ul style="list-style-type: none"> <li>I know how to add animated titles and transitions</li> </ul> <p><b>Photography and Digital Art</b></p> <ul style="list-style-type: none"> <li>I know how to use shapes and drawing tools to create digital art</li> </ul> <p><b>Self Image and Identity</b></p> <ul style="list-style-type: none"> <li>I can demonstrate responsible choices about my online identity, depending on context</li> </ul>	<p>1.6 -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>1.7 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>
Spring 2	<a href="#">Data Handling – Online Questionnaire</a>	<p><b>Word Processing/Typing</b></p> <ul style="list-style-type: none"> <li>I know how to confidently and regularly use text shortcuts such as cut, copy and paste and delete to organise text</li> </ul> <p><b>Data Handling</b></p> <ul style="list-style-type: none"> <li>I know how to create and publish my own online questionnaire and analyse the result</li> </ul>	<p>1.6 -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>
Summer 1	<a href="#">Networks - Understanding the internet and green screen</a>	<p><b>Computer Networks</b></p> <ul style="list-style-type: none"> <li>Understand the Internet is a worldwide network</li> <li>Understand how web pages are viewed across the Internet</li> </ul>	<p>1.4 - 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>

		<ul style="list-style-type: none"> <li>Understand the difference between the Internet and the world wide web</li> </ul> <b>Video Creation</b> <ul style="list-style-type: none"> <li>I know how to use confidently use green screen adding animated backgrounds.</li> </ul>	1.5- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
Summer 2	Lesson 1 – 6 = <a href="#">Lesson plans from the knowledge map</a>  *Subject lead to check lesson plans/curriculum coverage		1.7 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact