



Computing KS2







1. Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
2. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output
3. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
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
5. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
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
7. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.



Computing Intent

Pupils will become confident and responsible digital citizens. They will develop computational thinking and key skills to promote resilience when creating digital content. Pupils will develop strategies to build healthy online relationships and engage positively with online technologies.








Computing Long Term Plan YEAR 3

Term	Online Safety Focus Access https://projectevolve.co.uk/ Simon Mogg and Glyn Roberts are admin.	Basic Skills/New Curriculum	Barefoot Computing
Autumn Term	<p>Remind children of the Acceptable User Policy. Watch videos to remind children if needed from The SMART CREW.</p> <p>Privacy and Security</p> 	<p>Google Docs and typing skills</p> <p>Typing Pro/Typing Club</p> <p>Word processing-</p>  <p>1-Explain what 'my drive is and what it does' Set up files in my drive. Talk about the importance of finding files and how to file them correctly.</p> <p>2- Explain about searching on the internet safely. Google Safe Search</p>	<p><i>Barefoot: Selecting search activity</i></p>









	Online Bullying 	3- Create a Google Doc 	
Spring Term	Online Relationships 	An introduction to welearn365 and emailing  Email Coding <ol style="list-style-type: none"> 1. Retrieval on previous Coding 2. How much vocabulary can they remember? 3. Model Wedo- explain we can create an algorithm and the Lego model will perform the algorithm. 4. Model adding sound 5. Model loops and repetition 6. Lego Wedo 	Barefoot: 2D shape drawing debugging Barefoot: Decomposition unplugged activity Barefoot: Animated poem decomposition
Summer Term	Online Reputation 	Choose from Barefoot Coding or 2Code and Hour of Code <ul style="list-style-type: none"> • Introduce the first few coding examples and vocabulary. 	Barefoot: Scratch tinkering activity Barefoot: Fossil formation animation Barefoot: Shapes and crystal flowers repetition

	<p>I can search for information about myself online.</p> <p>I can recognise I need to be careful before I share anything about myself or others online.</p> <p>I know who I should ask if I am not sure if I should put something online.</p> <p>Self Image and Identity</p>  <p>I can explain how other people's identity online can be different to their identity in real life.</p> <p>I can describe the ways in which people might make themselves look different online.</p> <p>I can give examples of issues online that might make me feel sad, worried, uncomfortable or frightened; I can give examples of how I might get help.</p>	 <ul style="list-style-type: none">• Embed coding language• Work through 'Chimp' Coding on PurpleMash• Complete Hour of Code Minecraft and Dance Mat Coding	
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Computing Long Term Plan **YEAR 4**




Term	Online Safety Focus Access https://projectevolve.co.uk/ Simon Mogg and Glyn Roberts are admin.	Basic Skills/New Curriculum	Barefoot Computing
Autumn Term	Copyright and Ownership 	Google Slides  Safe search Squiggle Child Friendly Search Website.	Barefoot: Network hunt activity
Spring Term	 Self Image and Identity Health and Wellbeing 	Google Docs and typing skills Typing Pro/Typing Club Word processing- Reminder of Google Docs and typing. Link to topic or a write up. 	Barefoot: Abstraction unplugged activity Barefoot: Logical reasoning unplugged activity Barefoot: Viking raid animation Barefoot: Bug in the water cycle
Summer Term	Managing Online Information 	Coding -Lego Wedo 	Barefoot: Kodu tinkering activity

Computing Long Term Plan **YEAR 5**

Term	Online Safety Focus Access https://projectevolve.co.uk/ Simon Mogg and Glyn Roberts are admin.	Basic Skills/New Curriculum	Barefoot Computing
Autumn Term	 Privacy and Security Online Bullying 	Google Sheets <ul style="list-style-type: none"> Design their own allotment. Create a 'sheet' with plants and costs 	<p><u>Barefoot: Barefoot: Network hunt activity</u></p>
Spring Term	Online Relationships  Online Reputation 	<p>Either choose from Scratch below or Barefoot Computing.</p>  <ul style="list-style-type: none"> Scratch https://scratch.mit.edu/ Create a jumping game.  <ul style="list-style-type: none"> Hour of Code Solar System- Star Wars, Design your own Solar System (coding) 	<p>Barefoot Computing</p> <ul style="list-style-type: none"> Pizza Party Modelling <p><u>Barefoot: Pizza party - an introduction to data modelling</u></p> <p><u>Barefoot: Pizza party - an introduction to data modelling</u></p> <ul style="list-style-type: none"> Scratch Maths Quiz <p><u>Barefoot: Scratch maths quiz selection</u></p> <p><u>Barefoot: Scratch maths quiz variables</u></p>
Summer Term	Self Image and Identity 	Google Docs/Google Slides <ul style="list-style-type: none"> Retrieval Google Slides or Google Doc- Use to write up or create a presentation linked to topic. 	<ul style="list-style-type: none"> Barefoot- Variables Unplugged <p><u>Barefoot: Variables unplugged activity</u></p> <ul style="list-style-type: none"> Barefoot- Solar System simulation <p><u>Barefoot: Solar system simulation</u></p>

Computing Long Term Plan YEAR 6

Term	Online Safety Focus Access https://projectevolve.co.uk/ Simon Mogg and Glyn Roberts are admin.	Curriculum	Barefoot Computing
Autumn Term	Copyright and Ownership 	Google Docs and typing skills Typing Pro/Typing Club Word processing- Google Docs 	https://drive.google.com/drive/folders/1A_ttxAXZoaMuNUmFJYvWQ13LYZboKINc?usp=sharing <i>Barefoot: Ranking search activity</i>
Spring Term	Online safety revision and SMART rules. Self Image and Identity  <ul style="list-style-type: none"> ● ONLINE SAFETY- Example Paris Brown https://www.bbc.co.uk/news/uk-england-22083032 ● Mock up Facebook Page Health and Wellbeing 	Google Sheets <ul style="list-style-type: none"> ● Possibly data for heart rates before and after exercise. Create two line graphs ● Formula for adding exercise equipment. 	<i>Barefoot: Logical number sequences</i> <i>Barefoot: Crystal flowers - PRIMM1</i> <i>Barefoot: Crystal flowers - PRIMM2</i> <i>Barefoot: Code cracking 1 of 6</i> <i>Barefoot: Code cracking 2 of 6</i> <i>Barefoot: Code cracking 3 of 6</i> <i>Barefoot: Code cracking 4 of 6</i> <i>Barefoot: Code cracking 5 of 6</i>

			<u>Barefoot: Code cracking 6 of 6</u>
Summer Term	<p>Online Reputation</p>  <p>Look at football player Kurt Zouma https://www.bbc.co.uk/sport/football/60312876</p> <p>Managing Online Information</p> 	<p>Google Forms (for a purpose)</p> <ul style="list-style-type: none"> Designing their own questionnaire- Link to Global Goals 	<p><u>Barefoot: Investigating inputs activity</u></p> <p><u>Barefoot: Investigating outputs</u></p> <p><u>Barefoot: Classroom sound monitor</u></p> <p><u>Barefoot: Make a game project</u></p>