


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	Topic	Online Safety Focus	Basic Skills/New Curriculum	National Centre for Computing Education
Autumn Term	Through the Ages	https://projectevolve.co.uk/ Autumn 1 Self Image and Identity 	<p style="text-align: center;">typing skills</p> <p>https://www.bbc.co.uk/bitesize/topics/zf2f9j6/articles/z3c6tfr</p>	<p>1. Computing systems and networks – Connecting computers</p>






		<p>Autumn 2 Online Relationships</p>  <p>Online Reputation</p> 	<p>An introduction to Google Classroom</p>	<p>2. Creating media - Stop-frame animation</p>
<p>Spring Term</p>	<p>Rocks relics and rumbles</p>	<p>Spring 1 Online Bullying</p>  <p>Spring 2 Privacy and Security</p>  <p>Copyright and Ownership</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- Create a Google Doc and locate</p> 	<p>3. Programming A - Sequencing sounds</p> <p>4. Data and information – Branching databases</p>






Summer Term	Emperors and empires	<p><u>Summer 1</u> Health and Wellbeing</p>  <p><u>Summer 2</u> Managing Online Information</p> 		<p>5. Creating media – Desktop publishing</p> <p>6. Programming B - Events and actions in programs</p>
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Computing Long Term Plan **YEAR 4**

Term	Topic	Online Safety Focus	Basic Skills/New Curriculum	National Centre for Computing Education
Autumn Term	Invasion	<p>https://projectevolve.co.uk/</p> <p>Autumn 1 Self Image and Identity</p>  <p>Autumn 2 Online Relationships</p>  <p>Online Reputation</p> 	<p>Typing skills</p> <p>https://www.bbc.co.uk/bitesize/topics/zf2f9j6/articles/z3c6tfr</p> <p>enter key, space bar, copy and paste - text and photos</p>	<p>4. Data and information – Data logging</p> <p>5. Creating media – Photo editing</p>

<p>Spring Term</p>	<p>Misty Mountains and Winding rivers</p>	<p><u>Spring 1</u> Online Bullying</p>  <p><u>Spring 2</u> Privacy and Security</p>  <p>Copyright and Ownership</p> 	<p>Google Docs and typing skills</p> <p>Google Forms (for a purpose)</p> <ul style="list-style-type: none"> Designing their own questionnaire- Link to Global Goals <p>Typing Pro/Typing Club Word processing- Reminder of Google Docs and typing. Link to topic or a write up.</p> 	<p>3. Programming A – Repetition in shapes</p> <p>6. Programming B – Repetition in games</p>
<p>Summer Term</p>	<p>Ancient Civilisations</p>	<p><u>Summer 1</u> Health and Wellbeing</p>  <p><u>Summer 2</u> Managing Online Information</p> 	<p>Google Slides</p>   <p>Safe search Squiggle Child Friendly Search Website.</p>	<p>1. Computing systems and networks – The Internet</p> <p>2. Creating media - Audio production</p>

Term	Topic	Online Safety Focus	Basic Skills/New Curriculum	National Centre for Computing Education
Autumn Term	Dynamic Dynasties	<p>https://projectevolve.co.uk/</p> <p>Autumn 1 Self Image and Identity</p>  <p>Autumn 2 Online Relationships</p>  <p>Online Reputation</p> 	<p>Dance mat typing https://www.bbc.co.uk/bitesize/topics/zf2f9j6/articles/z3c6tfr</p> <p>Introduction to email</p>  <p>Email</p> <p>Use of search engines</p> <p>Editing skills for videos - storyboard</p> <p>Refresh of using Google Slides and Google Docs</p>	<p>1. Computing systems and networks - Systems and searching</p> <p>2. Creating media - Video production</p>
Spring Term	Sow, grow and Farm	<p>Spring 1 Online Bullying</p> 	<p>Google Sheets Teaching the children how to use sheets.</p> <ul style="list-style-type: none"> • Design their own allotment. • Create a 'sheet' with plants and costs 	<p>3. Programming A – Selection in physical computing</p>

		<p>Spring 2 Privacy and Security</p>  <p>Copyright and Ownership</p> 	 <p>Crumble programme</p> <p>Using charts - link to science.</p>	<p>4. Data and information – Flat-file databases</p>
<p>Summer Term</p>	<p>Ground Breaking Greeks</p>	<p>Summer 1 Health and Wellbeing</p>  <p>Summer 2 Managing Online Information</p> 	<p>Google Docs/Google Slides</p> <ul style="list-style-type: none"> Retrieval Google Slides or Google Doc- Use to write up or create a presentation linked to topic. <p>Vector drawings - google drawings.</p>	<p>5. Creating media – Introduction to vector graphics</p> <p>6. Programming B – Selection in quizzes</p>

Computing Long Term Plan **YEAR 6**

Term	Topic	Online Safety Focus	Curriculum	National Centre for Computing Education
<p>Autumn Term</p>	<p>Maafa</p>	<p>https://projectevolve.co.uk/</p> <p>Autumn 1 Self Image and Identity</p>	<p>Google Docs and typing skills</p> <p>Typing Pro/Typing Club</p> <p>Word processing-</p>	<p>1. Computing systems and networks - Communication and</p>



Autumn 2
Online Relationships



Online Reputation



Google Docs



[collaboration](#)

[2. Creating media – Web page creation](#)

Spring Term

Frozen Kingdoms

Spring 1
Online Bullying



Spring 2
Privacy and Security








Google Sheets

- Possibly data for heart rates before and after exercise. Create two line graphs
- Formula for adding exercise equipment.



[3. Programming A – Variables in games](#)

[4. Data and information - Introduction to Spreadsheets](#)

		<p>Copyright and Ownership</p> 		
<p>Summer Term</p>	<p>Britain at War</p>	<p><u>Summer 1</u> Health and Wellbeing</p>  <p><u>Summer 2</u> Managing Online Information</p> 	<p>Revisit Google Forms (for a purpose)</p> <ul style="list-style-type: none"> • Designing their own questionnaire- Link to Global Goals 	 <p>5. Creating media – 3D Modelling</p> <p>6. Programming B - Sensing movement</p>