# Computing Long Term Plan

**Curricular Goal**

To give every child a broad and balanced Computing curriculum which enables them to understand how to use the ever-changing technology to express themselves, as tools for learning and as a means to drive their generation forward into the future. We want children to develop as respectful, responsible and confident users of technology, aware of measures that can be taken to keep themselves and others safe online.

CS - Computer Science
IT - Information Technology
DL - Digital Literacy

The computing curriculum will be taught through Purple Mash. The lessons cover the entire computing curriculum.

There are additional lessons from Project Evolve to teach online safety throughout the year on top of the online safety lessons by Purple Mash.

Additional Resources for Safety Online, to top up the above and to sit alongside PSHE curriculum are also available if and when appropriate can be found via Project Evolve on the following strands from EY to Year 6.

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| Self-Image and Identity | Online Relationships | Online Reputation | Online Bullying |
| Managing Online Information | Health, Well-being and Lifestyle | Privacy and Security | Copyright and Ownership |

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| | | | | purple mash | | | Sutton in Craven CP School "Where Learners Grow" |
|---|---|---|---|---|---|---|---|

| Autumn Term 1 2023/2024 - 8 weeks | | | | | | |
|---|---|---|---|---|---|---|
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| All of these Purple Mash/Mini Mash activities to be accessed at points throughout the year starting in the Spring term.<br><br>**Technology Around Us** - DL | *Unit 1.1*<br>**Online Safety & Exploring Purple Mash** - DL<br>(4 lessons)<br><br>*Unit 1.2*<br>**Grouping and sorting** - CS<br>(2 lessons)<br><br>**Project Evolve**<br>**Privacy and Security**<br>I can explain how passwords are used to protect information, accounts and devices. | *Unit 2.1*<br>**Coding** - CS<br>(6 lessons)<br><br><br><br><br><br><br><br>**Project Evolve**<br>**Privacy and Security**<br>I can explain how passwords can be used to protect information, accounts and devices.<br><br>I can explain how passwords can be used to protect information, accounts and devices. | *Unit 3.1*<br>**Coding** - CS<br>(6 lessons)<br><br><br><br><br><br><br><br>**Project Evolve**<br>**Privacy and Security**<br>I can describe simple strategies for creating and keeping passwords private.<br><br>I can give reasons why someone should only share information with people they choose to and can trust. I can explain that if they are not sure or feel pressured then they should tell a trusted adult. | *Unit 4.1*<br>**Coding** - CS<br>(6 lessons)<br><br><br><br><br><br><br><br>**Project Evolve**<br>**Privacy and Security**<br>I can describe strategies for keeping personal information private, depending on context. | *Unit 5.1*<br>**Coding** - CS<br>(6 lessons)<br><br><br><br><br><br><br><br>**Project Evolve**<br>**Privacy and Security**<br>I can explain what a strong password is and demonstrate how to create one.<br><br>I can explain how many free apps or services may read and share private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others. | *Unit 6.1*<br>**Coding** - CS<br>(6 lessons)<br><br>*Unit 6.6*<br>**Networks**- CS<br>(3 lessons)<br><br><br><br>**Project Evolve**<br>**Privacy and Security**<br>I can describe effective ways people can manage passwords (e.g. storing them securely or saving them in the browser).<br><br>I can explain what to do if a password is shared, lost or stolen.<br><br>I can describe how and why people should keep their software and apps up to date, e.g. auto updates.<br><br>I can describe simple ways to increase privacy on apps and services that provide privacy settings. |

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| | | | Autumn Term 2 2023/2024 - 7 weeks | | | |
|---|---|---|---|---|---|---|
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| **Technology Around Us** - DL | *Unit 1.3* **Pictograms** - IT (3 lessons)<br><br>*Unit 1.4* **Lego Builders** - CS (3 lessons) | *Unit 2.2* **Online Safety** - DL (3 lessons)<br><br>*Unit 2.3* **Spreadsheets** - IT (4 lessons)<br><br><br><br>**Project Evolve**<br>**Copyright and Ownership**<br>I can save my work under a suitable title or name so that others know it belongs to me (e.g. filename, name on content).<br><br>I understand that work created by others does not belong to me even if I save a copy. | *Unit 3.2* **Online Safety** - DL (3 lessons)<br><br>*Unit 3.3* **Spreadsheets** - IT (3 lessons)<br><br><br><br>**Project Evolve**<br>**Privacy and Security**<br>I can describe how connected devices can collect and share anyone's information with others.<br><br>**Online Reputation**<br>I can explain how to search for information about others online. | *Unit 4.2* **Online Safety** - DL (4 lessons)<br><br>*Unit 4.3* **Spreadsheets** - IT (3/6 lessons - continue next term)<br><br><br><br>**Project Evolve**<br>**Online Reputation**<br>I can describe how to find out information about others by searching online. | *Unit 5.2* **Online Safety** - DL (3 lessons)<br><br>*Unit 5.3* **Spreadsheets** - IT (4/6 lessons - continue next term)<br><br><br><br>**Project Evolve**<br>**Self-image and Identity**<br>I can explain how identity online can be copied, modified or altered. | *Unit 6.2* **Online Safety** - DL (2 lessons)<br><br>*Unit 6.3* **Spreadsheets** - IT (5 lessons) |

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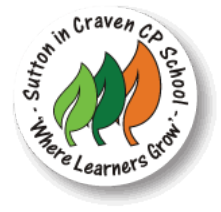| Spring Term 1 2023/2024 - 5 weeks | | | | | | |
|---|---|---|---|---|---|---|
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| **Mouse and Trackpad Skills** - IT<br><br>**Keyboard Skills** - IT<br><br>**Drawing Skills** - IT<br><br>**Using Purple Mash with an Individual Login** - DL | *Unit 1.5*<br>**Maze Explorers** - CS<br>(3 lessons) | *Unit 2.4*<br>**Questioning** - IT<br>(5 lessons) | *Unit 3.4*<br>**Touch Typing** - IT<br>(4 lessons) | *Unit 4.3*<br>**Spreadsheets** - IT<br>(3/6 lessons)<br><br>*Unit 4.8*<br>**Hardware Investigators** - CS<br>(2 lessons) | *Unit 5.3*<br>**Spreadsheets** - IT<br>(2/6 lessons)<br><br>*Unit 5.4*<br>**Databases** - IT<br>(4 lessons) | *Unit 6.4*<br>**Blogging** - IT<br>(4 lessons) |
| **Project Evolve**<br>**Online Relationships**<br>I can recognise some ways in which the internet can be used to communicate.<br><br>I can give examples of how I (might) use technology to communicate with people I know. | **Project Evolve**<br>**Managing Online Information**<br>I can give simple examples of how to find information using digital technologies, e.g. search engines, voice activated searching. | **Project Evolve**<br>**Managing Online Information**<br>I can use simple keywords in search engines.<br><br>I can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections). | **Project Evolve**<br>**Online Bullying**<br>I can describe appropriate ways to behave towards other people online and why this is important.<br><br>I can give examples of how bullying behaviour could appear online and how someone can get support. | **Project Evolve**<br>**Online Reputation**<br>I can explain ways that some of the information about anyone online could have been created, copied or shared by others. | **Project Evolve**<br>**Online Reputation**<br>I can search for information about an individual online and summarise the information found.<br><br>I can describe ways that information about anyone online can be used by others to make judgments about an individual and why these may be incorrect. | **Project Evolve**<br>**Online Reputation**<br>I can explain strategies anyone can use to protect their 'digital personality' and online reputation, including degrees of anonymity. |

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| Spring Term 2 2023/2024 - 5 weeks | | | | | | |
|---|---|---|---|---|---|---|
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| **Mouse and Trackpad Skills -** IT<br><br>**Keyboard Skills -** IT<br><br>**Drawing Skills -** IT<br><br>**Using Purple Mash with an Individual Login -** DL<br><br>**Safety and Privacy -** DL<br><br><br>**Project Evolve**<br>**Copyright and Ownership**<br>I can name my work so that others know it belongs to me. | *Unit 1.6*<br>**Animated Story Books -** IT<br>(5 lessons) | *Unit 2.6*<br>**Creating Pictures -** IT<br>(5 lessons) | *Unit 3.5*<br>**Email (including email safety) -** DL<br>(6 lessons) | *Unit 4.4*<br>**Writing for Different Audiences -** IT<br>(5 lessons) | *Unit 5.5*<br>**Game Creator-** IT<br>(5 lessons)<br><br><br>**Project Evolve**<br>**Online Relationships**<br>I can give examples of technology-specific forms of communication (e.g. emojis, memes and GIFs). | *Unit 6.5*<br>**Text Adventures -** CS<br>(5 lessons)<br><br><br>**Project Evolve**<br>**Online Bullying**<br>I can describe how to capture bullying content as evidence (e.g screen-grab, URL, profile) to share with others who can help me. |

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|---|---|---|---|---|---|---|
| **Summer Term 1**<br>**2023/2024 - 7 weeks** | | | | | | |
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| **Hardware** - DL<br><br>**Safety and Privacy** - DL<br><br>**Photography** - IT | *Unit 1.8*<br>**Spreadsheets** - IT<br>(3 lessons)<br><br>*Unit 1.9*<br>**Technology outside school** - DL<br>(2 lessons) | *Unit 2.5*<br>**Effective Searching** - DL<br>(3 lessons)<br><br>*Unit 2.7*<br>**Making Music** - IT<br>(3 lessons) | *Unit 3.6*<br>**Branching Databases** - IT<br>(4 lessons)<br><br>*Unit 3.7*<br>**Simulations** - IT<br>(3 lessons) | *Unit 4.5*<br>**Logo** - CS<br>(4 lessons)<br><br>*Unit 4.6*<br>**Animation** - IT<br>(3 lessons)<br><br><br>**Project Evolve**<br>**Online Bullying**<br>I can describe ways people can be bullied through a range of media (e.g. image, video, text, chat). | *Unit 5.6*<br>**3D Modelling** - IT<br>(4 lessons)<br><br>*Unit 5.7*<br>**Concept Maps** - IT<br>(4 lessons) | *Unit 6.7*<br>**Quizzing** - IT<br>(6 lessons)<br><br>*Unit 6.8*<br>**Understanding Binary** - CS<br>(4 lessons)<br><br><br>**Project Evolve**<br>**Copyright and Ownership**<br>I can demonstrate the use of search tools to find and access online content which can be reused by others.<br><br>I can demonstrate how to make references to and acknowledge sources I have used from the internet. |

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| | | | Summer Term 2<br>2023/2024 - 7 weeks | | | |
|---|---|---|---|---|---|---|
| Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| **Robots** - CS<br><br>**Sounds** - IT<br><br>**Quizzes** - IT<br><br>**Project Evolve**<br>**Managing Online Information**<br>I can talk about how to use the internet as a way of finding information online.<br><br>**Online Reputation**<br>I can identify ways that I can put information on the internet. | *Unit 1.7*<br>**Coding** - CS<br>(6 lessons) | *Unit 2.8*<br>**Presenting Ideas** - IT<br>(4 lessons) | *Unit 3.8*<br>**Graphing** - IT<br>(2 lessons)<br><br>*Unit 3.9*<br>**Presenting** - IT<br>(6 lessons)<br><br><br>**Project Evolve**<br>**Managing Online Information**<br>I can explain what autocomplete is and how to choose the best suggestion. | *Unit 4.7*<br>**Effective Searching** - IT<br>(3 lessons)<br><br>*Unit 4.9*<br>**Making Music** - IT<br>(4 lessons) | *Unit 5.8*<br>**Word Processing** - IT<br>(8 lessons)<br><br><br><br>**Project Evolve**<br>**Managing Online Information**<br>I can explain the benefits and limitations of using different types of search technologies e.g. voice-activation search engines. I can explain how some technology can limit the information I am presented with. | *Unit 6.9*<br>**Spreadsheets** - IT<br>(8 lessons) |