COMPUTING Curriculum – What will the children actually learn?

Key Threshold Concepts (Substantive Knowledge)

When constructing our curriculum, we considered key threshold concepts or "the big ideas" which shape the ways pupils think within each subject. These threshold concepts, also known as "substantive knowledge," are explored in every year group which help pupils gradually increase their understanding of them. Over time this approach of revisiting concepts helps children to *know more and remember more*. In our Computing lessons children are taught the key threshold concepts (substantive knowledge) below:

- i) Computer Science
- ii) Information Technology
- iii) Digital Literacy

The key threshold concepts for each class are set out in our three learning Milestones. Milestone 1 (Years 1 & 2), Milestone 2 (Years 3 & 4) and Milestone 3 (Year 5 & 6). These can be seen below alongside the topics that are to be taught in each class.

Topic Specific Milestones

In addition to the key threshold Milestones our curriculum sets out progression in the form of topic specific 'Milestones' for every topic taught. Each Milestone contains a range of descriptors which <u>provide details of the skills, within each topic, to be covered and taught in class.</u> KS1 children work to achieve the objectives set out in Milestone 1. Lower KS2 children work to achieve the objectives set out in Milestone 2 and upper Key Stage 2 children work to achieve the objectives set out in Milestone 3.

Vocabulary:

Research has shown that pupils with the most extensive vocabulary have:

- · better reasoning, inference and pragmatic skills
- · academic success and employment
- better mental health in adulthood.

Each milestone introduces a range of age appropriate computing vocabulary that the teacher will teach and revisit throughout the two-year period that the children are working on these milestone targets. These are set out below. In addition to this, each topic assessment tracker (see below) contains vocabulary that is specific to the individual topic.

Key Threshold Milestone 1 (Year 1 & 2)

- Assessment Tracker (print one copy of this page and tick/date the Milestone 1 targets when they are covered in class.

Class name: Year groups: Academic year:

| Computer Science | Information Technology | Digital Literacy |
|--|---|---|
| I can explain that an algorithm is a set of instructions (Units 1.4, 1.5) | I can sort sound, pictures and text. (Unit 1.2) | I can say what technology is. (Unit 1.9) |
| I know that a computer program turns an algorithm into code that the computer can understand. (1.4, 1.7) | I can add sound, pictures and text to a program such as 2Create a Story. (1.6) | I can say what examples of technology are in school. (1.9) |
| I can work out what is wrong when the steps are out of order in instructions (1.4, 1.5) | I can change content on a file such as text, sound and images. (1.3, 1.6, 1.7, 1.8) | I can say what examples of technology are at home. (1.9) |
| I can try and fix my code if it isn't working properly (1.7) | I can name my work. (1.2, 1.3, 1.6, 1.7, 1.8) | I know that a chair uses old technology and a smart phone uses new technology. (1.9) |
| I can make good guesses of what is going to happen in a program (1.5, 1.7) | I can save my work. (1.2, 1.3, 1.6, 1.7, 1.8) | I can keep my login information safe. (1.1 and most units) |
| I can explain an algorithm is a set of instructions to complete a task. (2.1) | I can find my work. (1.2, 1.3, 1.6, 1.7, 1.8) | I can save my work in a safe place such as 'My Work' folder. (1.1 and most units) |
| I know I need to carefully plan my algorithm so it will work when I make it into code. (2.1) | I can organise data – for example, using a database such as 2Investigate. (2.3, 2.4) | I can find information I need using a search engine. (2.5) |
| I can design a simple program using 2Code that achieves a purpose. (2.1) | I can find data using specific searches – for example, using 2Investigate. (2.4, 2.5) | I know the consequences of not searching online safely. (2.2, 2.5) |
| I can find and correct some errors in my program. (2.1) | I can use several programs to organise information – for example, using binary trees such as 2Question or spreadsheets such as 2Calculate. (2.4, 2.8) | I can share work and communicate electronically – for example using 2Email or the display boards. (2.2 and others) |
| I can say what will happen in a Program. (2.1) | I can edit digital data such as data in music composition software like 2Sequence. (2.7 and most units) | I can report unkind behaviour and things that upset me online, to a trusted adult. (2.2) |
| I can spot something in a program that has an action or effect (does something). (2.1) | I can name, save and find my work. (2.3, 2.4, 2.6, 2.7, 2.8 & most units) | I can see where technology is used at school such as in the office or canteen. (2.2) |
| | I can include photos, text and sound in my creations. (2.8, 2.6) | I understand that my creations such as programs in 2Code, need similar skills to the adult world. e.g., The program used for collecting money for school trips. (2.1) |

TOPICS TAUGHT in KS1:

In addition to the specific skills that the children will keep revisiting through the key concepts or substantive knowledge there will be specific learning related to individual topics. At Stapleford Primary School children are taught in mixed age classes e.g. Years 1 & 2 together etc. As a result, we have a two-year topic plan to prevent the children repeating subject matter. More detail is shown below as to what will be taught within each topic.

KS1 (Class 3 - Years 1 & 2) Rolling Programme

| | Veer A (202 | | 26 2027) ete | Year B (2021-2022), (2023-2024), (2025-2026) etc. | | | | | |
|----------------------------------|---|-----------------------------|-----------------|--|----------------------------------|---------------------------|--|--|--|
| Subject | Year A (202 | 2-2023), (2024-2025) (202 | 20-2027) etc. | Tear B (202 | 1-2022), (2023-2024), (20 | 25-2026) etc. | | | |
| | Autumn Term | Spring Term | Summer Term | Autumn Term | Spring Term | Summer Term | | | |
| | Unit 1.1. Online Safety & Exploring Purple Mash | Unit 1.2 Grouping & Sorting | Unit 1.7 Coding | Unit 1.1. Online Safety & Exploring Purple Mash | Unit 2.2 Online Safety | Unit 2.3 Spreadsheets | | | |
| Computing | | | | | | | | | |
| | Unit 2.5 Effective Searching | Unit 2.6 Creating Pictures | Unit 2.1 Coding | Unit 1.5 Maze Explorers | Unit 1.6 Animated Story Books | Unit 1.3 Pictograms | | | |
| (see Purple Mash scheme of work) | Unit 1.4 Lego Builders | Unit 1.8 Spreadsheets | | Unit 2.4 Questioning | Unit 2.7 Making Music | Unit 2.8 Presenting Ideas | | | |
| | Unit 1.9 Technology outside school | | | | | | | | |

Milestone 1: Vocabulary (words to revisit throughout the two-years that the children study Milestone 1).

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

The Assessment Tracker documents below outline what children will learn within each topic

| Computing: KS1 – Assessment tracker | r: Year 1 & : | 2 – YEAR | A | | | | | |
|---|---------------|----------|---|--|--|--|---|--|
| | | | | | | | | |
| Topic: Unit 1.1. Online Safety & Explor | ing Purple | Mash | | | | | • | |
| Pupils: | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | |
| Know how to log in safely. | | | | | | | | |
| how to find saved work in the Online Work | | | | | | | | |
| area and find teacher comments. | | | | | | | | |
| how to search Purple Mash to find | | | | | | | | |
| resources. | | | | | | | | |
| become familiar with the icons and | | | | | | | | |
| types of resources available in the | | | | | | | | |
| start to add pictures and text to work. | | | | | | | | |
| explore the Tools and Games section of | | | | | | | | |
| Purple Mash. | | | | | | | | |
| learn how to open, save and print. | | | | | | | | |
| understand the importance of | | | | | | | | |
| logging out. | | | | | | | | |

| alert | avatar | button | device | file name | private |
|-------|--------|---------|--------|--------------|----------|
| icon | log in | log out | menu | notification | password |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-----------|----------------|--------------|-------------------|-------------|------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |

| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
|----------------|--------|------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker | | | | | | |
|---|--|--|--|--|--|--|
| Topic: Unit 2.5 Effective searching Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| To understand the terminology associated with searching. | | | | | | |
| To gain a better understanding of searching on the Internet. | | | | | | |
| To create a leaflet to help someone search for information on the Internet. | | | | | | |
| To search safely on the Internet | | | | | | |

| digital footprint | domain | Internet | network | search engine |
|-------------------|----------------|----------|-------------|---------------|
| web page | world wide web | web site | web address | search |

| alert | avatar | button | device | file name | private | digital footprint | domain | Internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracket | r: Year 1 & | 2 | | | | | | | | | | |
|--|------------------------------|---|--|--|--|--|--|--|--|--|--|--|
| Topic: Unit 1.4 Lego builders | opic: Unit 1.4 Lego builders | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | | |
| To compare the effects of adhering strictly to instructions to completing tasks without complete instructions. | | | | | | | | | | | | |
| To follow and create simple instructions on the computer. | | | | | | | | | | | | |
| To consider how the order of instructions affect the result. | | | | | | | | | | | | |

| algorithm | code | computer | debugging | instructions | program |
|-----------|------|----------|-----------|--------------|---------|

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 - Assessment tracker | : Year 1 & | 2 | | | | | | | | | |
|---|------------|---|--|--|--|--|--|--|--|--|--|
| Topic: Unit 1.9 Technology outside school | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | |
| To walk around the local community and find examples of where technology is used. | | | | | | | | | | | |
| To record examples of technology outside school. | | | | | | | | | | | |

| computer technology |
|-----------------------|
|-----------------------|

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 - Assessment tracker | : Year 1 & | 2 | | | | | |
|--|------------|---|--|--|--|--|----------|
| | | | | | | | |
| Topic: Unit 1.2 Grouping and sorting | | | | | | | |
| Pupils: | | | | | | | |
| Targets | | | | | | | |
| Children can/know/explain/understand: | | | | | | | <u> </u> |
| To sort items using a range of criteria. | | | | | | | |
| | | | | | | | |
| To sort items on the computer using the | | | | | | | |
| 'Grouping' activities in Purple Mash. | | | | | | | |

| criteria | groups | sort |
|----------|--------|------|
|----------|--------|------|

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker: Yo | ear 1 & 2 | | | | | |
|---|-----------|--|--|--|--|--|
| Topic: Unit 2.6 Creating pictures | | | | | | |
| Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| To learn the functions of the 2Paint a Picture tool. | | | | | | |
| To learn about and recreate the Impressionist style of art (Monet, Degas, Renoir). | | | | | | |
| To recreate Pointillist art and look at the work of pointillist artists such as Seurat. | | | | | | |
| To learn about the work of Piet Mondrian and recreate the style using the lines template. | | | | | | |
| To learn about the work of William Morris and recreate the style using the patterns template. | | | | | | |
| To explore surrealism and eCollage | | | | | | |

| art | | pallette | style | fill | pointillism | impressionism | surrealism |
|-----|--|----------|-------|------|-------------|---------------|------------|
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| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker: Year 1 & 2 | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| Topic: Unit 1.8 Spreadsheets | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | |
| To know what a spreadsheet program looks like. | | | | | | | | | | | |
| To locate 2Calculate in Purple Mash. | | | | | | | | | | | |
| To enter data into spreadsheet cells. | | | | | | | | | | | |
| To use 2Calculate image tools to add clipart to cells. | | | | | | | | | | | |
| To use 2Calculate control tools: lock, move cell, speak and count. | | | | | | | | | | | |

| button | calculations | cell | clip-art | column | count tool | speak tool | value |
|--------|--------------|-------|-----------|-----------|------------|-------------|----------|
| data | delete | image | lock-cell | move-cell | row | spreadsheet | computer |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker | : Year 1 & 2 | | | | | | |
|---|--------------|--|--|--|--|--|--|
| Topic: Unit 1.7 Coding | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| To understand what instructions are and predict what might happen when they are followed. | | | | | | | |
| To use code to make a computer program. | | | | | | | |
| To understand what object and actions are. | | | | | | | |
| To understand what an event is. | | | | | | | |
| To use an event to control an object. | | | | | | | |
| To begin to understand how code executes when a program is run. | | | | | | | |
| To understand what backgrounds and objects are. | | | | | | | |
| To plan and make a computer program | | | | | | | |

| action | code | event | algorithm | command |
|------------|-------|-----------|-----------|---------|
| background | debug | debugging | input | execute |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-----------|----------------|--------------|-------------------|-------------|------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |

| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
|----------------|--------|------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker: | Year 1 & 2 | | | | | | | | |
|--|------------|-------|---|---|---|---|---|---|--|
| | | | | | | | | | |
| Topic: Unit 2.1 Coding | | • | 1 | • | T | 1 | T | 1 | |
| Pupils: | | | | | | | | | |
| Targets | | | | | | | | | |
| Children can/know/explain/understand: | | | | | | | | | |
| To understand what an algorithm is. | | | | | | | | | |
| To create a computer program using an | | | | | | | | | |
| algorithm. | | | | | | | | | |
| To create a program using a given design. | | | | | | | | | |
| To understand the collision detection event. | | | | | | | | | |
| To understand that algorithms follow a | | | | | | | | | |
| sequence. | | | | | | | | | |
| To design an algorithm that follows a timed | | | | | | | | | |
| sequence. | | | | | | | | | |
| To understand that different objects have | | | | | | | | | |
| different properties. | | | | | | | | | |
| To understand what different events do in | | | | | | | | | |
| code. | | | | | | | | | |
| To understand the function of buttons in a | | | | | | | | | |
| program. | | | | | | | | | |
| To understand and debug simple programs. | | | | | | | | | |
| | | | | | | | | | |

| action | algorithm | background | bug | button | click events |
|--------------------|-----------|------------|-----------|--------|--------------|
| collsion detection | command | debug | debugging | event | execute |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-----------|----------------|--------------|-------------------|-------------|------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |

| route | undo | unit | left | right | binary tree | database | field | pictogram |
|----------------|--------|------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 - Assessment tracker | · Voor 1 8 1 | O _ VEAD | R | | | | | |
|---|----------------|----------|---|--|--|--|--|--|
| Companing. Not - Assessment tracker | . I Cal I Ct A | L - ILAN | | | | | | |
| Topic: Unit 1.1. Online Safety & Explori | na Purnie i | Mash | | | | | | |
| Pupils: | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | |
| log in safely. | | | | | | | | |
| how to find saved work in the Online Work area and find teacher comments. | | | | | | | | |
| how to search Purple Mash to find resources. | | | | | | | | |
| become familiar with the icons and types of resources available in the | | | | | | | | |
| start to add pictures and text to work. | | | | | | | | |
| explore the Tools and Games section of Purple Mash. | | | | | | | | |
| learn how to open, save and print. | | | | | | | | |
| understand the importance of logging out. | | | | | | | | |

| alert | avatar | button | device | file name | private |
|-------|--------|---------|--------|--------------|----------|
| icon | log in | log out | menu | notification | password |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-----------|----------------|--------------|-------------------|-------------|------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |

| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
|----------------|--------|------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing VC1 Accomment tracker | Voor 1 9 2 | | | | | | | | |
|--|--------------|--|---|---|---|---|---|---|--|
| Computing: KS1 – Assessment tracker | . rear i & 2 | | | | | | | | |
| Tonios Unit 1 5 Mazo explorers | | | | | | | | | |
| Topic: Unit 1.5 Maze explorers | T | | | ı | ı | ı | T | 1 | |
| Pupils: | | | | | | | | | |
| Targets | | | | | | | | | |
| Children can/know/explain/understand: | | | | | | | | | |
| To understand the functionality of the direction | | | · | | | | | | |
| keys. | | | | | | | | | |
| To understand how to create and debug a set of | | | | | | | | | |
| instructions (algorithm). | | | | | | | | | |
| To use the additional direction keys as part of an | | | | | | | | | |
| algorithm. | | | | | | | | | |
| To understand how to change and extend the | | | | | | | | | |
| algorithm list. | | | | | | | | | |
| To create a longer algorithm for an activity. | | | | | | | | | |
| | | | | | | | | | |
| To set challenges for peers. | | | | | | | | | |
| | | | | | | | | | |
| To access peer challenges set by the teacher as | | | | | | | | | |
| 2Dos. | | | | | | | | | |

| algorithm | challenge | command | direction | instruction |
|-----------|-----------|---------|-----------|----------------|
| route | undo | unit | maze | left and right |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 - Assessment tracker: | Year 1 & | 2 | | | | | |
|--|----------|---|--|--|--|--|--|
| Topic: Unit 2.4 Questioning | | _ | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| To learn about data handling tools that can give more information than pictograms. | | | | | | | |
| To use yes/no questions to separate information. | | | | | | | |
| To construct a binary tree to identify items. | | | | | | | |
| To use 2Question (a binary tree database) to answer questions. | | | | | | | |
| To use a database to answer more complex search questions. | | | | | | | |
| To use the Search tool to find information. | | | | | | | |

| binary tree | data | database | field | pictogram |
|-------------|--------|----------|----------|-------------|
| record | search | sort | question | information |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker: | Voor 1 & 2 | | | | | |
|---|--------------|--|--|--|--|--|
| Company. Not - Assessment tracker. | i tai i ox Z | | | | | |
| Topic: Unit 2.2 Online safety | | | | | | |
| Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| To know how to refine searches using the | | | | | | |
| Search tool. | | | | | | |
| To use digital technology to share work on | | | | | | |
| Purple Mash to communicate and connect | | | | | | |
| with others locally. | | | | | | |
| To have some knowledge and | | | | | | |
| understanding about sharing more globally | | | | | | |
| on the Internet. | | | | | | |
| To introduce Email as a communication tool | | | | | | |
| using 2Respond simulations. | | | | | | |
| To understand how we should talk to others | | | | | | |
| in an online situation. | | | | | | |
| To open and send simple online | | | | | | |
| communications in the form of email. | | | | | | |
| To understand that information put online | | | | | | |
| leaves a digital footprint or trail. | | | | | | |
| To identify the steps that can be taken to | | | | | | |
| keep personal data and hardware secure | | | | | | |

| attachment | digital footprint | email | filter | personal information |
|------------|-------------------|---------|----------|----------------------|
| secure | search | sharing | internet | private information |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-----------|----------------|--------------|-------------------|-------------|------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |

| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
|----------------|--------|------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker | : Year 1 & | 2 | | | | | |
|--|------------|---|--|--|--|--|--|
| • | | | | | | | |
| Topic: Unit 1.6 Animated stories Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| To introduce e-books and the 2Create a Story tool. | | | | | | | |
| To add animation to a story. | | | | | | | |
| To add sound to a story, including voice recording and music the children have composed. | | | | | | | |
| To work on a more complex story, including adding backgrounds and copying and pasting pages. | | | | | | | |
| To share e-books on a class display board. | | | | | | | |

| animation | background | clip-art gallery | e-book | edit |
|-----------|--------------|------------------|--------|-----------------|
| sound | Sound effect | text | font | voice recording |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |
| | 1 | 1 | | | | | | |

| Computing: KS1 - Assessment tracker: | : Year 1 & 2 | | | | | |
|--|--------------|--|--|--|--|--|
| Topic: Unit 2.7 Making music | | | | | | |
| Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| To make music digitally using 2Sequence. | | | | | | |
| To explore, edit and combine sounds using 2Sequence. | | | | | | |
| To edit and refine composed music. | | | | | | |
| To think about how music can be used to express feelings and create tunes which depict feelings. | | | | | | |
| To upload a sound from a bank of sounds into the Sounds section. | | | | | | |
| To record and upload environmental sounds into Purple Mash. | | | | | | |
| To use these sounds to create tunes in 2Sequence. | | | | | | |

| beat | compose | note | tune | sound effect |
|-------|---------|--------|------------|----------------|
| speed | tempo | volume | soundtrack | bank of sounds |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-----------|---------------------|-------------------|----------------------|-------------|------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |

| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
|----------------|--------|---------|-------------|--------------|------------------|------------|--------------|-------------|
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 - Assessment tracker: Yo | ear 1 & 2 | | | | | |
|---|-----------|--|--|--|--|--|
| Topic: Unit 2.3 Spreadsheets | | | | | | |
| Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| To use 2Calculate image, lock, move cell, | | | | | | |
| speak and count tools to make a counting | | | | | | |
| machine. | | | | | | |
| To learn how to copy and paste in 2Calculate. | | | | | | |
| To use the totalling tools. | | | | | | |
| To use a spreadsheet for money calculations. | | | | | | |
| To use the 2Calculate equals tool to check | | | | | | |
| calculations. | | | | | | |
| To use 2Calculate to collect data and produce | | | | | | |
| a graph. | | | | | | |

| block graph | cell | column | сору | data | count tool | table |
|-------------|--------|-------------|-------|------|------------|-------|
| drag | equals | equals tool | label | row | speak tool | total |

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker: \ | Year 1 & 2 | | | | | | | | | | |
|---|------------|--|--|--|--|--|--|--|--|--|--|
| Topic: Unit 1.3 Pictograms | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | |
| To understand that data can be represented in picture format. | | | | | | | | | | | |
| To contribute to a class pictogram. | | | | | | | | | | | |
| To use a pictogram to record the results of an experiment. | | | | | | | | | | | |

| collect data | compare | data | pictogram | record results | title |
|--------------|---------|------|-----------|----------------|-------|
|--------------|---------|------|-----------|----------------|-------|

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

| Computing: KS1 – Assessment tracker: Y | ear 1 & 2 | | | omputing: KS1 – Assessment tracker: Year 1 & 2 | | | | | | | | | |
|--|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
| Topic: Unit 2.8 Presenting ideas | | | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | | | |
| To explore how a story can be presented in different ways. | | | | | | | | | | | | | |
| To make a quiz about a story or class topic. | | | | | | | | | | | | | |
| To make a fact file on a non-fiction topic. | | | | | | | | | | | | | |
| To make a presentation to the class. | | | | | | | | | | | | | |

| e-book Fact file | 11011011 | Non-fiction | Mind map | node | presentation | quiz |
|------------------|----------|-------------|----------|------|--------------|------|
|------------------|----------|-------------|----------|------|--------------|------|

| alert | avatar | button | device | file name | private | digital footprint | domain | internet |
|--------------------|---------------|---------------|-------------|---------------------|-------------------|----------------------|--------------|-------------|
| icon | log in | log out | menu | notification | password | algorithm | code | computer |
| network | search engine | web address | web page | world wide web | web site | debugging | intructions | program |
| technology | criteria | group | sort | cell | calculations | clip-art | column | count tool |
| data | delete | image | lock cell | move cell | row | speak tool | spreadsheet | value |
| art | fill | impressionism | palette | pointillism | style | surrealism | action | bug |
| collsion detection | command | background | execute | click events | event | imput | direction | challenge |
| route | undo | unit | left | right | binary tree | database | field | pictogram |
| question | search | attachment | filter | private information | digital footprint | personal information | secure | sharing |
| animation | e-book | sound | edit | sound effect | clip art gallery | font | text | beat |
| tune | speed | compose | note | soundtrack | tempo | volume | block graph | сору |
| drag | label | table | equals tool | equals | total | speak tool | collect data | compare |
| record results | title | e-book | mind map | presentation | fiction | node | fact file | non-fiction |

Key Threshold Milestone 2 (Year 3 & 4)

- Assessment Tracker (print one copy of this page and tick/date the Milestone 2 targets when they are covered in class.

Class name: Year groups: Academic year:

| Computer Science | Information Technology | Digital Literacy |
|--|---|---|
| I can make a real-life situation into an algorithm for a program. (3.1) | I can carry out searches to find digital content on a range of online systems, such as within Purple Mash or on an internet search engine. (Across units) | I can create a secure password. (3.2) |
| I can design an algorithm carefully, thinking about what I want it to do and how I can turn it into code. (3.1) | I can collect data and input it into software. (3.3, 3.6, 3.8) | I can explain the importance of having a secure password and not sharing it with others. (3.2, 3.5) |
| I can identify an error in my program and fix it. (3.1) | I can analyse data using features within software to help such as, formula in 2Calculate (spreadsheets). (3.3, 3.6, 3.8) | I can explain the negative consequences of not keeping passwords safe and secure. (3.2, 3.5) |
| I can experiment with timers in my programs. (3.1) | I can present data and information using different software such as 2Question (branching database) or 2Graph (graphing tool). (3.3, 3.6, 3.8,3.9) | I understand the importance of keeping safe online and behaving respectfully. (3.2) |
| I can identify the difference in using between the effect of a timer or repeat command in my code. (3.1) | I can consider what the most appropriate software to use when given a task by my teacher. (Across units) | I can use communication tools such as 2Email respectfully and use good etiquette. (3.2, 3.5) |
| I know that a variable stores information while a program is running (executing). (3.1) | I can create purposeful (appropriate) content and attach this to emails. (3.3, 3.5, 3.6, 3.7, 3.8, 3.9) | I can report unacceptable content and contact online in more than one way to a trusted adult. (3.2) |
| I can identify 'If' statements, repetition and variables. (3.1) | I understand the purpose of a search engine and the main features within it. (4.7) | I have a good understanding of the online safety rules we learn at school. (4.2 & across curriculum) |
| I can read programs with several steps and predict what it will do. (3.1) | I can look at information on a webpage and make predictions about the accuracy of information contained within it. (4.7) | I can demonstrate how to use different online technologies safely. (4.2 & across curriculum) |
| I can identify different ways that the internet can be used for communication. (3.5) | I can create and improve my solutions to a problem based on feedback. For example, create a program using 2Code. (4.1, 4.2) | I can demonstrate how to use a few different online services safely. (4.2 & across curriculum) |
| I can use email such as 2Email to respond to others appropriately and attach files. (3.5) | I can review solutions that others have created, using a checklist of criteria. (4.1, 4.2) | I know I have a right to privacy both on and offline. (4.2 & across curriculum) |
| I can turn a real-life situation to solve into an algorithm, using a design that shows how I can accomplish this in code. (4.1, 4.5) | I can work collaboratively to create content and solutions. (4.1, 4.3, 4.4,48) | I recognise that my wellbeing can be affected by how I use technology. (4.2 & across curriculum) |
| I can use repetition in my code. For example, using a loop that continues until a condition is met such as the correct answer being entered. (4.1) | I can share digital content using a variety of applications such as: 2Blog, 2Email and Display Boards. (Across units) | I can report with ease any concerns with content and contact online and know immediate strategies to keep safe. (4.2 & across curriculum) |

| I can use timers within my program designs more accurately to create repetition effects. For example, I can create a | |
|--|--|
| counting machine. (4.1) | |
| I can use selection (decision) in my programming. For | |
| example, using an 'if statement' for a question being asked | |
| and the program takes one of two paths. (4.1) | |
| I can use variables within my program and know how to | |
| change the value of variables. (4.1) | |
| I can use the user inputs and output features within my | |
| program, such as 'Print to screen'. (4.1) | |
| I can identify errors in my code by using different methods, | |
| such as steeping through lines of code and fixing them. (4.1) | |
| I can read programs that contain several steps and predict | |
| the outcomes with increasing accuracy. (4.1, 4.5) | |
| I recognise the main component parts of hardware which | |
| allow computers to join and form a network. (4.8) | |
| I understand that network and communication components | |
| can be found in many different devices which allow them to | |
| join the internet. (4.2, 4.7, 4.8) | |

TOPICS TAUGHT in Lower KS2:

In addition to the specific skills that the children will keep revisiting through the key concepts or substantive knowledge there will be specific learning related to individual topics. At Stapleford Primary School children are taught in mixed age classes e.g. Years 3 & 4 together etc. As a result, we have a two-year topic plan to prevent the children repeating subject matter. More detail is shown below as to what will be taught within each topic.

Lower KS2 (Class 2 - Year 3 & 4) Rolling Programme

| Subject | Year A (202 | 2-2023), (2024-2025) (20 | 26-2027) etc. | Year B (202 | 1-2022), (2023-2024), (20 | 25-2026) etc. |
|--|--|---------------------------------------|--|--|--|--|
| | Autumn Term | Spring Term | Summer Term | Autumn Term | Spring Term | Summer Term |
| Computing (see Purple Mash scheme of work) | Unit 3.1 Coding Unit 3.2 Online safety Unit 3.3 Spreadsheets | Unit 3.4 Touch Typing Unit 3.5. Email | Unit 3.6 Branching Databases Unit 3.7 Simulations Unit 3.8 Graphing | Unit 4.1 Coding Unit 4.2 Online Safety | Unit 4.3 Spreadsheets Unit 4.4 Writing for different audiences | Unit 4.5 Logo Unit 4.6 Animation Unit 4.7 Effective Search Unit 4.8 Hardware Investigators |

Milestone 2: Vocabulary (words to revisit throughout the two-years that the children study Milestone 2).

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|----------------|-------------------|------------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

The Assessment Tracker documents below outline what children will learn within each topic

| Computing: KS2 – Assessment tracker: Ye | ear 3 & 4 | | | | | |
|---|-----------|--|--|--|--|--|
| | | | | | | |
| Topic: Unit 3.1 Coding Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| Knows what a flowchart is and how flowcharts are used in computer programming. | | | | | | |
| Knows how to use a flowchart to create a computer program. | | | | | | |
| Knows that there are different types of timers used in coding environments such as 2Code. | | | | | | |
| Knows which timer should be used for a given purpose. | | | | | | |
| Know what a repeat command is and how to use the repeat command. | | | | | | |
| Know how to create a range of programs using coding knowledge. | | | | | | |
| Know how to run, test and debug their own programs. | | | | | | |
| Know what nesting is and that this should be considered when debugging. | | | | | | |
| Know how to change attributes/properties of any objects in a program they have made. | | | | | | |

| collision detection event | alort | algorithm | background | hua | hutton | click event | code | command | dobug | debugging | action |
|---------------------------|-------|-----------|------------|-----|--------|--------------|------|---------|-------|-----------|--------|
| collision detection event | alen | algorithm | background | bug | button | Click everit | code | Command | debug | debugging | action |

| willestoffe 2. Vocabulary (wi | oras to revisit tillo | agnout the two you | TO that the orman | in study milestone z | - <i>)</i> - | | | |
|-------------------------------|-----------------------|--------------------|-------------------|----------------------|---------------|------------|-------------|------------|
| advance mode | algorithm | background | bug | button | click event | code | password | review |
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |

| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
|-------------------------|-------------|---------------|------------|---------------|--------------|----------------|-------------------|------------------|
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Commuting I/CO Accessment treation Ver | 0 0 4 | | | | | | | | | | |
|--|---------|---|----------|---|---|----------|---|---|---|---|--|
| Computing: KS2 – Assessment tracker: Yea | r 3 & 4 | | | | | | | | | | |
| Tonio, Unit 2.2 Online potety | | | | | | | | | | | |
| Topic: Unit 3.2 Online safety | | 1 | <u> </u> | 1 | 1 | <u> </u> | 1 | 1 | I | 1 | |
| Pupils: | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | |
| Knows what makes a safe password and how | | | | | | | | | | | |
| to keep it safe. | | | | | | | | | | | |
| Knows the main outcomes of not keeping | | | | | | | | | | | |
| passwords safe. | | | | | | | | | | | |
| Knows all the common ways the Internet | | | | | | | | | | | |
| enables people to effectively communicate. | | | | | | | | | | | |
| Know that a blog can be used to help | | | | | | | | | | | |
| communicate with a wider audience. | | | | | | | | | | | |
| Know how to contribute to a blog with clear | | | | | | | | | | | |
| and appropriate messages. | | | | | | | | | | | |
| Know that some information held on websites | | | | | | | | | | | |
| may not be accurate or true. | | | | | | | | | | | |
| Beginning to know how to search the Internet | | | | | | | | | | | |
| and how to think critically about the results | | | | | | | | | | | |
| returned. | | | | | | | | | | | |
| Know why there are age restrictions on digital | | | | | | | | | | | |
| media and devices. | | | | | | | | | | | |
| Know where to turn to for help if they see | | | | | | | | | | | |
| inappropriate content or have inappropriate | | | | | | | | | | | |
| contact from others. | | | | | | | | | | | |

| appropriate | inappropriate | blog | internet | personal information | reputable source | reliable source | spoof | vlog | verify | website | permission |
|-------------|---------------|------|----------|----------------------|------------------|-----------------|-------|------|--------|---------|------------|

| micsione 2. Vocabulary (words to revisit throughout the two years that the official study micsione 2). | | | | | | | | | | | |
|--|-----------|------------|-----------|--------------|---------------|-----------|-------------|---------|--|--|--|
| advance mode | algorithm | background | bug | button | click event | code | password | review | | | |
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture | | | |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths | | | |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo | | | |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm | | | |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse | | | |
| communication | compose | email | inbox | password | axis | chart | graph | pitch | | | |

| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
|-------------------------|-----------------|---------------|---------------|---------------|--------------|----------------|-------------------|------------------|
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: \ | Year 3 & 4 | | | | | | | | | | |
|--|------------|--|--|--|--|--|--|--|--|--|--|
| Topic: Unit 3.3 Spreadsheets | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | |
| Know how to create tables of data within a spreadsheet. | | | | | | | | | | | |
| Know how to use a spreadsheet program to automatically create charts and graphs from data. | | | | | | | | | | | |
| Know how to use various features within a spreadsheet to support solutions to calculations. For example, 'more than', 'less than', and 'equals'. | | | | | | | | | | | |
| Know how to describe a cell location in a spreadsheet. | | | | | | | | | | | |
| Know how to find specified locations in a spreadsheet | | | | | | | | | | | |

| advance mode | bar graph | equals | data | cell address | spreadsheet | columns |
|--------------|-----------|-----------|------|--------------|-------------|-----------|
| table | pie chart | quiz tool | rows | equal to | more than | less than |

| algorithm | background | bug | button | click event | code | password | review |
|-----------------|--|--|--|--|---|---|---|
| command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| spoof | alert | action | permission | less than | more than | equal to | synths |
| verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| compose | email | inbox | password | axis | chart | graph | pitch |
| trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| | command spoof verify bar graph keys compose trusted contact binary tree text box slide | command debug spoof alert verify vlog bar graph equals keys typing compose email trusted contact design binary tree database text box duration slide slideshow | command debug debugging spoof alert action verify vlog website bar graph equals data keys typing space bar compose email inbox trusted contact design analysis binary tree database investigation text box duration editing slide slideshow timing | command debug debugging appropriate spoof alert action permission verify vlog website rows bar graph equals data cell address keys typing space bar address book compose email inbox password trusted contact design analysis modelling binary tree database investigation tally chart text box duration editing fill colour slide slideshow timing transition | command debug debugging appropriate inappropriate spoof alert action permission less than verify vlog website rows columns bar graph equals data cell address pie chart keys typing space bar address book BCC compose email inbox password axis trusted contact design analysis modelling simulation binary tree database investigation tally chart sorting text box duration editing fill colour font colour slide slideshow timing transition sound effect | command debug debugging appropriate inappropriate blog spoof alert action permission less than more than verify vlog website rows columns spin tool bar graph equals data cell address pie chart quiz tool keys typing space bar address book BCC CC compose email inbox password axis chart trusted contact design analysis modelling simulation evaluation binary tree database investigation tally chart sorting animation text box duration editing fill colour font colour font formating slide slideshow timing transition sound effect media | command debug debugging appropriate inappropriate blog internet spoof alert action permission less than more than equal to verify vlog website rows columns spin tool spreadsheet bar graph equals data cell address pie chart quiz tool table keys typing space bar address book BCC CC attatchment compose email inbox password axis chart graph trusted contact design analysis modelling simulation evaluation decision binary tree database investigation tally chart sorting animation audio text box duration editing fill colour font colour font formating preview slide slideshow timing transition sound effect media code blocks |

| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
|-----------------------|-------------|---------------|------------|---------------|-----------|---------------|--------------|------------------|
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: | Year 3 & 4 | | | | | | |
|---|------------|--|--|--|--|--|--|
| Topic: Unit 3.4 Touch typing | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know typing terminology including names of fingers. | | | | | | | |
| Know the home, top and bottom row sections on a keyboard. | | | | | | | |
| Knows the keys typed with left hand. | | | | | | | |
| Knows the keys typed with right hand. | | | | | | | |
| Knows the correct way to sit at a keyboard. | | | | | | | |

| posture | keys | typing | space bar |
|---------|------|--------|-----------|

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|------------|---------------|--------------|---------------|----------------|-------------------|------------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| | | | | | | | | |

| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
|-----------------------|-------------|---------------|------------|---------------|-----------|---------------|--------------|--------------|
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 - Assessment tracker: Year | 8 & 4 | | | | | |
|--|-------|--|--|--|--|--|
| Topic: Unit 3.5 Email | | | | | | |
| Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| Know the different methods of communication and know the strengths and weaknesses of his form. | | | | | | |
| Know how to open and responding to email. | | | | | | |
| Know how to use an address book to write an email. | | | | | | |
| Know how to use an email environment safely including the importance of the draft feature. | | | | | | |
| Know how to add attachments to an email. | | | | | | |
| Can explore a simulated email scenario. | | | | | | |

| Milestone 2: Vocabulary (words to revisit throughout the two-years that the children study Milestone | 2) |
|---|-------------|
| milestone 2. Vocabulary (words to revisit till odgriddt tile two-years tilat tile cillidien stady milestone / | <u>~ j.</u> |

communication

compose

Topic specific vocabulary:

BCC

CC

attatchment

address book

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|------------|---------------|--------------|---------------|----------------|-------------------|------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| | | | | | 1 | | | |

email

inbox

password

personal information

trusted contact

saved to draft

| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
|-----------------------|-------------|---------------|------------|---------------|-----------|---------------|--------------|------------------|
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: Year 3 & 4 | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|
| Topic: Unit 3.6 Branching databases | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | |
| Know how to sort objects using just YES/NO. | | | | | | | | | | | |
| Know how YES/NO questions are structured and answered. | | | | | | | | | | | |
| Know how to complete a branching database. | | | | | | | | | | | |
| Know how to edit and adapt a branching database. | | | | | | | | | | | |
| Know how to create a branching database including debugging it. | | | | | | | | | | | |

| binary tree | database | debugging | branching database | data |
|-------------|-----------|-----------|--|------|
| | 5.5.15.15 | | in the state of th | |

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|----------------|-------------------|------------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 | 2 – Assessment tra | acker: Year 3 & 4 | | | | | | |
|--|---|-------------------|------------|----------|--|--|--|--|
| Topic: Unit 3.7 S | Simulation | | | | | | | |
| Pupils: | | | | | | | | |
| Targets Children can/know/ | explain/understand: | | | | | | | |
| Know that a compurepresent real and it | ter simulation can imaginary situations | | | | | | | |
| Know advantages a simulations. | and problems of using | 3 | | | | | | |
| Know how to use a different options an | simple simulation to d test predictions. | try out | | | | | | |
| _ | to evaluate simulatio th real simulations an | - | | | | | | |
| considering their us | | | | | | | | |
| Topic specific voca | ıbulary: | | | | | | | |
| analysis | modelling | simulation | evaluation | decision | | | | |

| , | | , | | • | , | | | |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|----------------|-------------------|------------------|
| advance mode | algorithm | background | bug | button | click event | code | password | review |
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: k | KS2 – Assessme | ent tracker: | Year 3 & | 4 | | | | | | | | | | |
|--------------------------------|---|--------------|----------|--------------------------|---|---|---|---|-----|----|-------|---------|------|--|
| Topic: Unit 3. | .8 Graphing | | | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | | | | |
| Targets Children can/kn | ow/explain/underst | tand: | | | | | | | | | | | | |
| | et up a graph with a s using graphing so | - | | | | | | | | | | | | |
| | nter data for a grapl | h. | | | | | | | | | | | | |
| | elect the most appro | | | | | | | | | | | | | |
| Know how to so enable easier a | ort data in graphing nalysis. | software to | | | | | | | | | | | | |
| Topic specific v | ocabulary: | | | • | • | • | • | • | | | • | • | • | |
| column | column chart axis data | | | data graph investigation | | | | • | row | SO | rting | tally c | hart | |

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|----------------|-------------------|------------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 - Assessment tracker: Yo | ear 3 & 4 | | | | | | | |
|--|-----------|--|---|---|---|---|---|---|
| Tania, Unit 2 0 Brasantina | | | | | | | | |
| Topic: Unit 3.9 Presenting | | | 1 | 1 | Г | Г | 1 | 1 |
| Pupils: | | | | | | | | |
| Targets | | | | | | | | |
| Children can/know/explain/understand: | | | | | | | | |
| Know what presentation is and how it can be | | | | | | | | |
| used. | | | | | | | | |
| Know how to add pages/slides, text and | | | | | | | | |
| shapes to pages, and also format them. | | | | | | | | |
| Know how to add media such as images, | | | | | | | | |
| audio and videos. | | | | | | | | |
| Know how to use effects and features such as | | | | | | | | |
| animations and slide transitions. | | | | | | | | |
| Know how timings can help when presenting | | | | | | | | |
| and know how to include them in | | | | | | | | |
| presentations. | | | | | | | | |
| Know how to effectively present to an | | | | | | | | |
| audience using presentation software. | | | | | | | | |

preview

slide

slideshow

transition

font formatting

| Milastona 2: Vacabulary /war | do to rovicit throughout the tw | o-vears that the children study Milestone | ~ 2\ |
|-------------------------------|---------------------------------|---|-----------------------|
| Willestone 2. Vocabular v two | as to revisit throughout the tw | o-vears mai me chiluren siuuv milesione | <i>\$</i> 4 1. |

fill colour

media

review

Topic specific vocabulary:

text box

theme

audio

animation

| , , | | | | | | | | |
|---------------------------|-----------------|------------|---------------|--------------|---------------|----------------|-------------------|------------|
| advance mode | algorithm | background | bug | button | click event | code | password | review |
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |

sound effect

| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
|-----------------------|-------------|---------------|------------|---------------|-----------|---------------|--------------|------------------|
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Compu | ting | : KS2 – Assess | sment tracker | : Year 3 & 4 | | | | | | | | | | |
|---------------------|-------|-------------------------------------|----------------|--------------|-------------|---|--------|---------|----|--------|----|----------|-----|------|
| Topic: l | Jnit | 4.1 Coding | | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | | | | |
| Targets Children | can/ | /know/explain/unc | lerstand: | | | | | | | | | | | |
| | kno۱ | w what selection is | | | | | | | | | | | | |
| Know ho | w ar | n IF statement wo | rks. | | | | | | | | | | | |
| | | interpret an IF sta | | | | | | | | | | | | |
| | | F statement. | program that | | | | | | | | | | | |
| Know ho | | use co-ordinates | in computer | | | | | | | | | | | |
| | | ne 'repeat until' co | mmand is. | | | | | | | | | | | |
| Know ho | w ar | IF/ELSE stateme | ent works. | | | | | | | | | | | |
| Know wh | at a | variable is in prog | gramming. | | | | | | | | | | | |
| Know ho | | use variables wit | hin their | | | | | | | | | | | |
| | | to create a playa g environment. | ble game using | | | | | | | | | | | |
| opic spe | cific | vocabulary: | | | | • | | | • | • | • | <u> </u> | | |
| action | | algorithm | alert | background | code blocks | | button | debuggi | ng | commar | nd | design | exe | cute |

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|------------|-----------|--------------|---------------|------------|-------------|---------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |

| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
|-------------------------|-------------|---------------|---------------|---------------|--------------|----------------|-------------------|------------------|
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Topic: Unit 4.2 Online safety | | | | | |
|--|--|--|--|---|--|
| Pupils: | | | | | |
| Targets Children can/know/explain/understand: | | | | | |
| Know that information put online leaves a | | | | | |
| digital footprint or trail and can expand on prior | | | | | |
| years' scope of this fact. | | | | | |
| Know some of the ways children can protect | | | | | |
| themselves from online identity theft. | | | | | |
| Know that information put online by users | | | | | |
| could be used for identity theft. | | | | | |
| Know the main risks and benefits of installing | | | | | |
| software and applications. | | | | | |
| Know that copying work of others and | | | | | |
| oresenting it as their own is plagiarism. | | | | | |
| Knows the consequences of plagiarism. | | | | | |
| Knows appropriate behaviour when | | | | 1 | |
| participating or contributing to collaborative | | | | | |
| online projects for learning. | | | | | |
| Know some of the main positive and negative | | | | | |
| nfluences technology has on health and the | | | | | |
| environment. | | | | | |
| Knows the importance of balancing screen | | | | | |
| time with non-screen time. | | | | | |

| citation | adfly | collaborate | cookies | copyright | digital footprint | malware | phishing | plagiarism | ransomware | spam | virus | watermark | smart rules | |
|----------|-------|-------------|---------|-----------|-------------------|---------|----------|------------|------------|------|-------|-----------|-------------|--|
|----------|-------|-------------|---------|-----------|-------------------|---------|----------|------------|------------|------|-------|-----------|-------------|--|

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------|------------|-----------|--------------|---------------|-----------|-------------|---------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |

| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
|-------------------------|-----------------|---------------|---------------|---------------|--------------|----------------|-------------------|------------------|
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: | Year 3 & 4 | | | | | | |
|---|------------|--|--|--|--|--|--|
| Topic: Unit 4.3 Spreadsheets | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know what cell formatting is. | | | | | | | |
| Know how to format cells as currency, percentage, decimal or fraction. | | | | | | | |
| Know how to use formula wizard tools. | | | | | | | |
| Know how to combine spreadsheet tools to create a purposeful spreadsheet e.g. a timed times table test. | | | | | | | |
| Know how to use a spreadsheet to model a real-life situation e.g. budget planner. | | | | | | | |
| • Know how to add a formula to a cell in order to automatically make a calculation in that cell. | | | | | | | |

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|------------|---------------|--------------|---------------|----------------|-------------------|------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |

| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
|-----------------------|-------------|---------------|------------|---------------|-----------|---------------|--------------|------------------|
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: \ | Year 3 & 4 | | | | | | | | | | | |
|---|------------|--|--|--|--|--|--|--|--|--|--|--|
| opic: Unit 4.4 Writing for different audiences | | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | | |
| Know how font size and style can affect the impact of a text. | | | | | | | | | | | | |
| Know how to use a simulated scenario to produce a news report | | | | | | | | | | | | |
| Know how to use a simulated scenario to write for a community campaign. | | | | | | | | | | | | |

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|----------------|-------------------|------------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: | Year 3 & 4 | | | | | | |
|---|------------|--|--|--|--|--|--|
| Topic: Unit 4.5 Logo | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know the structure of the coding language of Logo. | | | | | | | |
| Know how to input simple instructions in Logo language environment. | | | | | | | |
| Know how to create letter shapes using Logo. | | | | | | | |
| Know what the repeat function in Logo is and its usefulness. Use it to create shapes such as squares. | | | | | | | |
| Know what procedures are and use this knowledge to build procedures in Logo | | | | | | | |

| LOGO grid | prediction | pen up | pen down | procedure | debugging | multi line mode |
|-----------|------------|--------|----------|-----------|-----------|-----------------|
|-----------|------------|--------|----------|-----------|-----------|-----------------|

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|------------|---------------|--------------|---------------|----------------|-------------------|-------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |

| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
|-----------------------|-------------|---------------|------------|---------------|-----------|---------------|--------------|------------------|
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: \ | Year 3 & 4 | | | | | | |
|--|------------|--|--|--|--|--|--|
| Topic: Unit 4.6 Animation | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know how animations are created by hand. | | | | | | | |
| Know how animations are created using computers. | | | | | | | |
| Know what onion skinning is when referring to animation. | | | | | | | |
| Know that animations can be enhanced using features in software such as background and sounds. | | | | | | | |
| Know what 'stop motion' animation is | | | | | | | |

| FPS frames per second | stop motion | frame | pause | animation | onion skinning |
|-----------------------|-------------|-------|-------|-----------|----------------|
|-----------------------|-------------|-------|-------|-----------|----------------|

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|------------|---------------|--------------|---------------|----------------|-------------------|-------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |

| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
|-----------------------|-------------|---------------|------------|---------------|-----------|---------------|--------------|------------------|
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: | Year 3 & 4 | | | | | | |
|---|------------|--|--|--|--|--|--|
| Topic: Unit 4.7 Effective searching | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know how to find information from a search results page. | | | | | | | |
| Know how to search effectively to find out information. | | | | | | | |
| Know how to identify if an information source is true and reliable. | | | | | | | |

| search engine balanced view Eas | ster eggs internet | key words | reliability | results page |
|---------------------------------|--------------------|-----------|-------------|--------------|
|---------------------------------|--------------------|-----------|-------------|--------------|

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|---------------------------|-----------------|---|---------------|---------------|---------------|----------------|-------------------|------------------|
| advance mode | algorithm | background | bug | button | click event | code | password | review |
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: Y | /ear 3 & 4 | | | | | | |
|---|------------|--|--|--|--|--|--|
| Topic: Unit 4.8 Hardware investigators | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know there are key parts that make up a computer. | | | | | | | |
| Know what each of the key parts is called and the function of them. | | | | | | | |

| CPU | graphics card | hard drive | motherboard | software | RAM | peripherals | input | output | graphics card | network card |
|-----|---------------|------------|-------------|----------|-----|-------------|-------|--------|---------------|--------------|
| | • | | | | | • • | | | 0 . | i |

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|----------------|-------------------|------------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: | Year 3 & 4 | | | | | | |
|---|------------|--|--|--|--|--|--|
| Topic: Unit 4.9 Making music | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know the main elements of music. | | | | | | | |
| Know what rhythm and tempo is and able to use this knowledge to experiment with it. | | | | | | | |
| Know that computers can be used to create music compositions. | | | | | | | |
| Know how to apply knowledge of music to create own composition using software. | | | | | | | |

| BPM | tempo | rhythm | melody | harmonious | pitch | pulse | synths | texture | dynamics |
|-----|-------|--------|--------|------------|-------|-------|--------|---------|----------|

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|---------------|---------------|---------------|---------------|----------------|-------------------|------------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |
| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

| Computing: KS2 – Assessment tracker: Ye | ear 3 & 4 | | | | | | |
|---|-----------|--|--|--|--|--|--|
| Topic: Unit 4.10 Artificial intelligence | | | | | | | |
| Pupils: | | | | | | | |
| Targets | | | | | | | |
| Children can/know/explain/understand: | | | | | | | |
| Know the basic concept of what artificial | | | | | | | |
| intelligence is. | | | | | | | |
| Know the key impact of artificial intelligence on | | | | | | | |
| daily life. | | | | | | | |
| Know real-life examples of the current use of | | | | | | | |
| artificial intelligence. | | | | | | | |
| Know how to think critically about artificial | | | | | | | |
| intelligence including its use in the future. | | | | | | | |
| Know how to utilise artificial intelligence to | | | | | | | |
| create media such as images and music. | | | | | | | |

| algorithm artificial intelligence data | |
|--|--|
|--|--|

| advance mode | algorithm | background | bug | button | click event | code | password | review |
|---------------------------|-----------------|------------|---------------|--------------|---------------|----------------|-------------------|------------------|
| collision detection event | command | debug | debugging | appropriate | inappropriate | blog | internet | texture |
| personal information | spoof | alert | action | permission | less than | more than | equal to | synths |
| reputable source | verify | vlog | website | rows | columns | spin tool | spreadsheet | tempo |
| reliable source | bar graph | equals | data | cell address | pie chart | quiz tool | table | rhythm |
| posture | keys | typing | space bar | address book | BCC | CC | attatchment | pulse |
| communication | compose | email | inbox | password | axis | chart | graph | pitch |
| personal information | trusted contact | design | analysis | modelling | simulation | evaluation | decision | melody |
| saved to draft | binary tree | database | investigation | tally chart | sorting | animation | audio | harmonious |
| border properties | text box | duration | editing | fill colour | font colour | font formating | preview | dynamics |
| artificial intelligence | slide | slideshow | timing | transition | sound effect | media | code blocks | BPM |
| branching database | execute | adfly | citation | collaborate | cookies | copyright | digital footprint | software |
| smart rules | malware | phishing | plagiarism | ransomware | spam | virus | watermark | RAM |
| onion skinning | budget | formula | chart | campaign | font | genre | opinion | peripherals |
| reporter | viewpoint | LOGO | grid | prediction | pen up | pen down | procedure | input and output |

| multi line mode | pause | frame | animation | balanced view | key words | reliability | results page | network card |
|-----------------------|-------------|---------------|------------|---------------|-----------|---------------|--------------|--------------|
| FPS frames per second | stop motion | search engine | components | Easter eggs | CPU | graphics card | hard drive | motherboard |

Key Threshold Milestone 3 (Year 5 & 6)

- Assessment Tracker (print one copy of this page and tick/date the Milestone 3 targets when they are covered in class.

Class name: Year groups: Academic year:

| Computer Science | Information Technology | Digital Literacy |
|---|--|--|
| I can make more complex real-life problems into algorithms for a program. (5.1) | I can search precisely when using a search engine. For example, I know I can add additional words or removes words to help find better results. (5.2) | I have a secure knowledge of online safety rules taught at school. (5.2 & across units) |
| I can test and debug my programs as I work. (5.1, 5.5) | I can explain in detail how accurate, safe and reliable the content is on a webpage. (5.2) | I can demonstrate the safe and respectful use of different online technologies and online services. (5.2 & across units) |
| I can convert (translate) algorithms that contain sequence, selection and repetition into code that works. (5.1) | I can make appropriate improvements to digital work I have created. (Across units) | I always relate appropriate online behaviour to my right to have personal privacy. (5.2 & across units) |
| I can use sequence, selection, repetition, and some other coding structures in my code. (5.1) | I can comment on how successful a digital solution is that I have created. For example, a program built in 2Code that sorts decimals numbers. (Across units) | I know how to not let my mental wellbeing or others be affected by use of online technologies and services. (5.2 & across units) |
| I can organise my code carefully for example, naming variables and using tabs. I know this will help me debug more efficiently. (5.1) | I can work collaboratively with others creating solutions to problems using appropriate software such as 2Code. (Across units) | I can demonstrate safe and respectful use of a range of different technologies and online services. (6.2, 6.4) |
| I can use logical methods to identify the cause of any bug with support to identify the specific line of code. (5.1) | I can use collaborative modes such as within 2Connect to work with others and share it. (5.7) | I can identify more discrete inappropriate behaviours online. For example, someone who may be trying to groom me or someone else. (6.2) |
| I know the importance of computer networks and how they help solve problems and enhance communication. (5.2) | I can use filters when searching for digital content. (6.2,6.9) | I can use critical thinking to help me stay safe online. (6.2) |
| I recognise the main dangers that can be perpetuated via computer networks. (5.2) | I can explain in detail how accurate and reliable a webpage and its content is. (6.2) | I know the value of protecting my privacy and others online. (6.2, 6.4) |
| I can explain what personal information is and know strategies for keeping this safe. (5.2) | I can compare a range of digital content sources and rate them in terms of content quality and accuracy. (6.1, 6.3, 6.4, 6.5, 6.7,6.9) | |
| I can use the most appropriate form of online communication according to the digital content. For example, use 2Email, 2Blog and Display Boards. (5.2 & others) | I can consider the intended audience carefully when I design and make digital content. (6.1, 6.3, 6.4, 6.5, 6.7,6.9) | |
| I can turn a complex programming task into an algorithm. (6.1) | I can design and create my own online blogs. (6.4) | |
| I can identify the important aspects of a programming task (abstraction). (6.1) | I can use criteria to evaluate the quality of my own and others digital solutions, suggesting refinements. (6.1, 6.3, 6.4, 6.5, 6.7,6.9) | |

| I can decompose important aspects of a programming task | |
|--|--|
| in a logical way, identifying appropriate coding structures | |
| that would work. (6.1) | |
| I can test and debug my program as I work on it and use | |
| logical methods to identify a cause of a bug. (6.1) | |
| I can identify a specific line of code that is causing a | |
| problem in my program and attempt a fix. (6.1) | |
| I can translate algorithms that include sequence, selection | |
| and repetition into code and nest these structures within | |
| each other. (6.1) | |
| I can use inputs and outputs within my coded programs | |
| such as sound, movement and buttons and represent the | |
| state of an object (6.1, 6.7) | |
| I can interpret (understand) a program in parts and can | |
| make logical attempts to put the separate parts together in | |
| an algorithm to explain the program as a whole. (6.1) | |
| I can explain the difference between the internet and the | |
| World Wide Web. (6.2, 6.4,6.6) | |
| I can explain what a WAN and LAN is and describe the | |
| process of how access to the internet in school is possible. | |
| (6.2,6.6) | |

TOPICS TAUGHT in Upper KS2:

In addition to the specific skills that the children will keep revisiting through the key concepts or substantive knowledge there will be specific learning related to individual topics. At Stapleford Primary School children are taught in mixed age classes e.g. Years 5 & 6 together etc. As a result, we have a two-year topic plan to prevent the children repeating subject matter. More detail is shown below as to what will be taught within each topic.

Upper KS2 (Class 1 – Years 5 & 6) Rolling Programme

| Subject | Year A (202 | 2-2023), (2024-2025) (202 | 26-2027) etc. | Year B (2021-2022), (2023-2024), (2025-2026) etc. | | | | | |
|----------------------------------|--|---------------------------|-----------------------|---|-----------------------|--------------------------|--|--|--|
| | Autumn Term | Spring Term | Summer Term | Autumn Term | Spring Term | Summer Term | | | |
| | Unit 5.1 Coding Unit 5.3 Spreadsheets Un | | Unit 5.5 Game Creator | Unit 6.1 Coding | Unit 6.3 Spreadsheets | Unit 6.5 Text Adventures | | | |
| Computing | Unit 5.2 Online Safety | Unit 5.4 Databases | Unit 5.6 3D Modelling | Unit 6.2 Online Safety | Unit 6.4 Blogging | Unit 6.6 Networks | | | |
| (see Purple Mash scheme of work) | ι | | Unit 5.7 Concept Maps | | | Unit 6.7 Quizzing | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Milestone 3: Vocabulary (words to revisit throughout the two-years that the children study Milestone 3).

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|-------------------|---------------|-----------------------------|---------------|---------------|-----------------|---------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

The Assessment Tracker documents below outline what children will learn within each topic

| Computing: KS2 - Assessment tracker | : Year 5 & 6 | | | | | | | | | | | |
|--|--------------|----------|-------|-------|----------|---|----------|--------|-----------|---|-----------|---|
| | | | | | | | | | | | | |
| Topic: Unit 5.1 Coding | | 1 | | Τ | | T | | T | T | | 1 | T |
| Pupils: | | | | | | | | | | | | |
| Targets | | | | | | | | | | | | |
| Children can/know/explain/understand: | | | | | | | | | | | | |
| Begin to know how to simplify code in order to | | | | | | | | | | | | |
| make own programming more efficient. | | | | | | | | | | | | |
| Know how to create a simple simulation using | | | | | | | | | | | | |
| 2Code. For example, a traffic light sequence. | | | | | | | | | | | | |
| Know what decomposition and abstraction are | | | | | | | | | | | | |
| in computer science. | | | | | | | | | | | | |
| Know the need to start coding at a basic level | | | | | | | | | | | | |
| of abstraction to remove superfluous details | | | | | | | | | | | | |
| from own programs. | | | | | | | | | | | | |
| Know how to use decomposition to make a | | | | | | | | | | | | |
| plan of a real-life situation. | | | | | | | | | | | | |
| Know what a function is in coding and know | | | | | | | | | | | | |
| how to use a function in own program to make | | | | | | | | | | | | |
| it more efficient. | | | | | | | | | | | | |
| Know what different variable types are. | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Know what strings are and how to use them. | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Know how to set and change variable values | | | | | | | | | | | | |
| in code. | | | | | | | | | | | | |
| Know some of the common ways that text | | | | | | | | | | | | |
| variables can be used in programming. | | | | | | | | | | | | |
| Know and use concatenation in own programs | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | • | | | | | • | | | • | | |
| Topic specific vocabulary: | | | | | | | | | | | | |
| abstraction action algo | orithm | concaten | ation | debug | debuggin | g | decompos | sition | efficient | | flowchart | |

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------|----------------|---------------|--------------------------|---------------|---------------|-------------|-------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |

| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
|---------------|-------------------|-------------------|--------------|-----------------------------|---------------|--------------|-----------------|---------------|
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: \ | ear 5 & 6 | | | | | | |
|--|-----------|--|--|--|--|--|--|
| Topic: Unit 5.2 Online Safety | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know in more detail from prior learning of the impact that sharing digital content can have. | | | | | | | |
| Know how to think critically about information they share online. | | | | | | | |
| Know responsibilities they have for themselves and others regarding online behaviour. | | | | | | | |
| Know and have developed knowledge from prior years about maintaining secure passwords. | | | | | | | |
| Know about image manipulation using software and the advantages or disadvantages of this when shared online. | | | | | | | |
| Know what is meant by appropriate and inappropriate text, photographs and videos. | | | | | | | |
| Know about the impact of sharing media such as photographs and videos online. | | | | | | | |
| Know about the importance of citing content online from others and know how to do this. | | | | | | | |
| Know how to select keywords and search techniques to find relevant information to increase reliability. | | | | | | | |

| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
|----------|-------------|---------------|-----------|--------------------------|---------|-----------------|----------------------|---------------|
| phishing | password | smart rules | validity | identity theft | spoof | reliable source | personal inofrmation | inappropriate |

| mileotorie o. voods | tone of resulting (words to revisit throughout the two yours that the enhancer study inhostorie of | | | | | | | | | | |
|---------------------|--|----------------|---------------|--------------------------|---------------|---------------|-------------|-------------|--|--|--|
| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart | | | |
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware | | | |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet | | | |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart | | | |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics | | | |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise | | | |

| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
|---------------|-------------------|-------------------|--------------|-----------------------------|--------------|-------------|-----------------|---------------|
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Compu | ting: KS2 – | Assessr | nent tracker: Y | 'ear 5 & 6 | | | | | | | | | | | |
|--|---|------------|-----------------|------------|--------|--------|-------|----------|-----------|------|----------------|-------|-----------|---------|--------|
| Topic: | Unit 5.3 Spr | eadshee | ts | | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | | | | | |
| Targets Children | can/know/exp | olain/unde | rstand: | | | | | | | | | | | | |
| spreadsh | ow to use form neet to conver nd distance. | | | | | | | | | | | | | | |
| Know ho | ow to use more ly. For examp e area and per | le, to use | formulae to | | | | | | | | | | | | |
| Know ho | ow to create for S. | rmulae tha | at use text | | | | | | | | | | | | |
| | w to use tools Iculate and th | | - | | | | | | | | | | | | |
| hypotheses. For example, to answer hypotheses about common letters in use. | | | | | | | | | | | | | | | |
| Topic spe | ecific vocabu | lary: | | | | | | • | • | • | • | | • | • | • |
| rows | columns | data | spreadsheet | formula | format | formul | a bar | variable | advance n | node | totalling tool | how r | many tool | formula | wizard |

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|-------------------|---------------|-----------------------------|---------------|---------------|-----------------|---------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: Year 5 & | 6 | | | | | |
|---|---|--|--|--|--|---|
| | | | | | | |
| Topic: Unit 5.4 Databases Pupils: | | | | | | 1 |
| Targets | | | | | | |
| Children can/know/explain/understand: | | | | | | |
| Know how to search for information within a | | | | | | |
| database. | | | | | | |
| Know the different ways to search for | | | | | | |
| information in a database. | | | | | | |
| Know how to add information into a shared | | | | | | |
| database. | | | | | | |
| Know how to create own database. | | | | | | |
| | | | | | | |
| Know how to create new records. | | | | | | |
| | | | | | | |
| Know what fields are and know how to | | | | | | |
| correctly add information. | | | | | | |
| Know how to phrase questions so they can | | | | | | |
| be correctly answered using a search of | | | | | | |
| database. | | | | | | |

| Milestone 3: Vocabular | y (words to revisit throug | ahout the two-vears t | that the children stud | v Milestone 3). |
|------------------------|----------------------------|-----------------------|------------------------|-----------------|
| | | | | |

database

collaborative

Topic specific vocabulary:

avatar

chart

arrange

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|----------------|---------------|-----------------------------|---------------|---------------|-----------------|--------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |

group

record

data

field

database report

statistics

sort

search

| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
|------------|-----------------|-------------------|----------|----------------------|----------|----------|----------------|---------------|
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 - Assessment tracker: \ | Year 5 & 6 | | | | | | |
|--|------------|--|--|--|--|--|--|
| Topic: Unit 5.5 Game creator | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know what some of the main elements are that make a successful game. | | | | | | | |
| Know how to plan a playable game. | | | | | | | |
| Know how to incorporate media such as sound and images. | | | | | | | |
| Know how to manipulate media including adding animation. | | | | | | | |
| Know how to successfully evaluate games. | | | | | | | |

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|-------------------|---------------|-----------------------------|---------------|---------------|-----------------|---------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: Ye | ear 5 & 6 | | | | | |
|--|-----------|--|--|--|--|--|
| Topic: Unit 5.6 3D Modelling | | | | | | |
| Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| Know what modelling software is and the skills of computer aided design. | | | | | | |
| Know the effect of moving points when designing. | | | | | | |
| Know how to design a 3D model to fit certain criteria. | | | | | | |
| Know how to refine and print a model. | | | | | | |

| - 1 1 | | | | | | | | |
|-------|----|-------------|--------------|--------------|-----------------------------|----------|--------|-----|
| 2D | 3D | 3D printing | design brief | pattern fill | CAD – computer aided design | template | points | net |

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|-------------------|---------------|-----------------------------|---------------|---------------|-----------------|---------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: Yea | ar 5 & 6 | | | | | |
|--|----------|--|--|--|--|--|
| Topic: Unit 5.7 Concept maps | | | | | | |
| Pupils: | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | |
| Know the need for visual representations when generating and discussing complex ideas. | | | | | | |
| Know the uses of a 'concept map.' | | | | | | |
| Know what is meant by 'concept map', 'stage', 'nodes' and 'connections.' | | | | | | |
| Know how to create a concept map using software such as 2Connect. | | | | | | |
| Know that concept maps can be used to retell stories and information. | | | | | | |
| Know how to present a concept map to an audience. | | | | | | |

| concept | concept map | connection | collaborate | node | story mode | presentation mode |
|---------|-------------|------------|-------------|------|------------|-------------------|
|---------|-------------|------------|-------------|------|------------|-------------------|

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|-------------------|---------------|-----------------------------|---------------|---------------|-----------------|--------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |

| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
|------------|---------|----------------|----------|----------------------|----------|----------|----------------|---------------|
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 - Assessment tracker: Y | ear 5 & 6 | | | | | | | | | |
|---|-------------|----------------|--------------|------------|------------|-----------|-------|---|---|--|
| · | | | | | | | | | | |
| Topic: Unit 5.8 Word processing (MS Wor | d) – additi | onal unit taug | nt when word | processing | g in other | subjects. | 1 | 1 | T | |
| Pupils: | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | |
| Know what a word processing tool is for. | | | | | | | | | | |
| Know how to create a word processing | | | | | | | | | | |
| document. | | | | | | | | | | |
| Know how to alter the look of text and navigate | | | | | | | | | | |
| around a document. | | | | | | | | | | |
| Know how to alter page layout including | | | | | | | | | | |
| heading and columns. | | | | | | | | | | |
| Know how to add and edit images. | | | | | | | | | | |
| Know how to add features to enhance look | | | | | | | | | | |
| and usability within a document. For example: | | | | | | | | | | |
| textboxes, hyperlinks, contents pages. | | | | | | | | | | |
| Know how to use tables to present information. | | | | | | | | | | |

| creative commons | hyperlink | formatting | caps lock | captions | cursor | bulleted lists | copy and paste | merge cells |
|----------------------|-------------|------------|-----------|----------|------------------|----------------|----------------|-------------|
| word processing tool | readability | copyright | document | font | page orientation | text wrapping | word art | edit |

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|----------------|---------------|-----------------------------|---------------|---------------|-----------------|--------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |

| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
|------------|-----------------|-------------------|-----------|----------------------|------------|----------|----------------|---------------|
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: Yo | ear 5 & 6 | | | | | |
|---|-----------|------|------|--|------|--|
| - Accession and access | <u> </u> | | | | | |
| Topic: Unit 6.1 Coding | | | | | | |
| Pupils: | | | | | | |
| Targets | | | | | | |
| Children can/know/explain/understand: | | | | | | |
| Know how to implement a game which | | | | | | |
| includes timers and a score. | | | | | | |
| Know what the launch command is. | | | | | | |
| Build on knowledge of functions. | | | | | | |
| Know how to use multiple functions in own | | | | | | |
| program. | | | | | | |
| Know how to arrange code in multiple tabs. | | | | | | |
| Know how to develop creativity when coding to | | | | | | |
| generate novel effects. | | | | | | |
| Know the different options of generating user input in 2Code. | | | | | | |
| Know how to attribute variables to user input. | | | | | | |
| Know the need to code for all possibilities | | | | | | |
| when using user inputs. | | | | | | |
| Know how 2Code can be used to make a text | | | | | | |
| based adventure game. | | | | | | |
| Know with improving understanding of how | | | | | | |
| they can alter existing programs to reflect their | | | | | | |
| own ideas. | | | | | | |
| Building on existing knowledge of debugging, | | | | | | |
| children know how to debug more effectively. | | | | | | |

| Topic specifi | ic vocabulal y. | | | | | | | | | |
|---------------|-----------------|---------|--------------|-------|---------------|---------|-----------|-------|-----------|-----|
| action | algorithm | command | co-ordinates | event | decomposition | execute | flowchart | debug | debugging | run |

| Willestone J. Vocak | Juliany (Words to It | cvisit till oaghout tile | wo years mar n | ic ciliaren stady milestone oj. | | | | |
|---------------------|----------------------|--------------------------|----------------|---------------------------------|---------------|---------------|-------------|-------------|
| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |

| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
|---------------|-------------------|-------------------|--------------|-----------------------------|---------------|--------------|-----------------|---------------|
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: Yea | ar 5 & 6 | | | | | | | | | |
|---|----------|----------|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Topic: Unit 6.2 Online safety | | <u> </u> | | 1 | 1 | I | I | 1 | ı | ı |
| Pupils: | | | | | | | | | | |
| Targets | | | | | | | | | | |
| Children can/know/explain/understand: | | | | | | | | | | |
| Know the benefits and risks of mobile devices | | | | | | | | | | |
| broadcasting the location of the user/device, | | | | | | | | | | |
| e.g., apps accessing location. | | | | | | | | | | |
| Know what secure sites are. | | | | | | | | | | |
| | | | | | | | | | | |
| Know that secure sites will have industry | | | | | | | | | | |
| standard seals of approval. | | | | | | | | | | |
| Build on knowledge of Digital Footprints. For | | | | | | | | | | |
| example, know how and why people use their | | | | | | | | | | |
| information. | | | | | | | | | | |
| Build on knowledge of appropriate online | | | | | | | | | | |
| behaviours and how this can protect | | | | | | | | | | |
| themselves and others from possible online | | | | | | | | | | |
| dangers. For example, the dangers of | | | | | | | | | | |
| promoting inappropriate content online. | | | | | | | | | | |
| Have greater knowledge of how to make more | | | + | 1 | | | | | | |
| informed choices of how free time is used. | | | | | | | | | | |
| | | | | 1 | | | | | | |
| Know the effects on individual health when | | | | | | | | | | |
| having too much screen time. | | | | | | | | | | |

| | | | | | | | | | | | _ |
|---------------|-------------------|---------------|--------------|----------------|-------------|-------|-----------------|------------------|-------------|----------|---|
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | location sharing | PEGI rating | password | Ī |

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|---------------|--------------|----------------|-----------------|-------------------------------|---------------|---------------|-------------|--------------|
| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |

| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
|---------------|-------------------|-------------------|--------------|----------------------|--------------|-----------|-----------------|---------------|
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: | rear 5 & 6 | | | | | | |
|---|------------|--|--|--|--|--|--|
| Topic: Unit 6.3 Spreadsheets | | | | | | | |
| Pupils: | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | |
| Know how to create a spreadsheet to help answer a mathematical question relating to probability. | | | | | | | |
| Know how to take 'copy' and 'paste' shortcuts. | | | | | | | |
| Know how to problem solve during mathematical investigations when using spreadsheets by using tools such as the 'Count tool'. | | | | | | | |
| Know how to create a spreadsheet to produce computational models. For example, creating a spreadsheet that works out discounts and final price sales. Children will know how to use advanced formula to assist with this. | | | | | | | |
| Know how to use a spreadsheet to help plan actions. For example, create a spreadsheet to plan how to spend pocket money and the effect of saving. | | | | | | | |

| advance mode | budget | chart | how many tool | dice tool | expense | formula bar | formula wizard | format cell | move cell tool | probability | profit |
|--------------|--------|-------|---------------|-----------|---------|-------------|----------------|-------------|----------------|-------------|--------|
|--------------|--------|-------|---------------|-----------|---------|-------------|----------------|-------------|----------------|-------------|--------|

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|--------------|----------------|---------------|-----------------------------|---------------|---------------|-----------------|--------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |

| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
|---------------|-------------------|-------------------|--------------|----------------------|-------------|----------|-----------------|---------------|
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Topic: Unit 6.4 Blogging | ı | | T | 1 | 1 | 1 | 1 | 1 | 1 |
|---|---|--|---|---|---|---|---|---|---|
| Pupils: | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | |
| Know the purpose of writing a blog. | | | | | | | | | |
| Know the features of successful blog writing. | | | | | | | | | |
| Know how to plan a blog. | | | | | | | | | |
| Know how to write a blog. | | | | | | | | | |
| Know how to write a blog post. | | | | | | | | | |
| Know that the way information is presented | | | | | | | | | |
| within a blog has an impact upon the audience. | | | | | | | | | |
| Know how to contribute to others' blogs. | | | | | | | | | |
| Know the importance of having an approval | | | | | | | | | |
| process when creating blog content or modifying it. | | | | | | | | | |
| Know from Online Safety knowledge that | | | | | | | | | |
| content within blogs applies. For example, | | | | | | | | | |
| children know the issues surrounding inappropriate posts and cyberbullying. | | | | | | | | | |

| Topic opecine recasulary | b obsolite resultation y | | | | | | | | | |
|--------------------------|--------------------------|------|-----------|------------|------|-------------|--|--|--|--|
| approval | archive | blog | blog post | commenting | Vlog | collaborate | | | | |

| | ocione of roughautify (words to route in outgrout the free found that the officers of | | | | | | | | | | | | |
|---------------|---|----------------|---------------|--------------------------|---------------|---------------|-------------|--------------|--|--|--|--|--|
| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart | | | | | |
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware | | | | | |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet | | | | | |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart | | | | | |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics | | | | | |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise | | | | | |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief | | | | | |

| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
|---------------|-------------------|-------------------|--------------|-----------------------------|--------------|-------------|-----------------|---------------|
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 - Assessment tracker: Year 5 & 6 | Computing: KS2 – Assessment tracker: Year 5 & 6 | | | | | | | | | |
|--|---|--|--|--|---|--|---|---|---|---|
| T | | | | | | | | | | |
| Topic: Unit 6.5 Text adventures | т г | | | | Т | | T | Т | T | 1 |
| Pupils: | | | | | | | | | | |
| Targets | | | | | | | | | | |
| Children can/know/explain/understand: | | | | | | | | | | |
| Know what a text based adventure is. | | | | | | | | | | |
| | | | | | | | | | | |
| Know how to convert a simple story with 2 or 3 | | | | | | | | | | |
| levels of decision making into a logical design. | | | | | | | | | | |
| Know how to use the functionality of 2Create a | | | | | | | | | | |
| Story Adventure mode to create, test and | | | | | | | | | | |
| debug using plans. | | | | | | | | | | |
| Know the difference between a map-based | | | | | | | | | | |
| game and a sequential story-based game. | | | | | | | | | | |
| Know how to use written plans to code a map- | | | | | | | | | | |
| based adventure using 2Code. | | | | | | | | | | |
| Know how to recall existing knowledge to | | | | | | | | | | |
| support coding a map-based adventure game. | | | | | | | | | | |
| For example, using functions, two-way | | | | | | | | | | |
| selection (IF/ELSE statements) and repetition. | | | | | | | | | | |

| text-based adventure | function | flow of control | step through | sprite | selection | debug | debugging |
|----------------------|----------|-----------------|--------------|--------|-----------|-------|-----------|
|----------------------|----------|-----------------|--------------|--------|-----------|-------|-----------|

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|----------------|---------------|-----------------------------|---------------|---------------|-----------------|--------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |

| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
|------------|-----------------|-------------------|----------|----------------------|----------|----------|----------------|---------------|
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: Year 5 & 6 | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| Topic: Unit 6.6 Networks | | | | | | | | | | | |
| Pupils: | | | | | | | | | | | |
| Targets Children can/know/explain/understand: | | | | | | | | | | | |
| Know the difference between the World Wide Web and the Internet. | | | | | | | | | | | |
| Know what a WAN and LAN is and the key differences between them. | | | | | | | | | | | |
| Know how a school network accesses the Internet. | | | | | | | | | | | |
| Know the history of the Internet. | | | | | | | | | | | |
| Know some of the major changes in technology which have taken place in their lifetime. | | | | | | | | | | | |

| area network network world | e web internet | switch | router | Wi-Fi | local area network |
|----------------------------|----------------|--------|--------|-------|--------------------|
|----------------------------|----------------|--------|--------|-------|--------------------|

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|-------------------|---------------|-----------------------------|---------------|---------------|-----------------|---------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |

| Computing: KS2 – Assessment tracker: Year 5 & 6 | | | | | | | | | | | |
|--|--------------------------|--|--|--|--|--|--|--|--|--|--|
| Tonio: Unit 6.7 Quizzina | Topic: Unit 6.7 Quizzing | | | | | | | | | | |
| Pupils: | | | | | | | | | | | |
| Targets | | | | | | | | | | | |
| Children can/know/explain/understand: | | | | | | | | | | | |
| Know how to use create activities for younger | | | | | | | | | | | |
| children using software such as 2DIY. | | | | | | | | | | | |
| Know about different question types within | | | | | | | | | | | |
| quizzing software tools such as 2Quiz. | | | | | | | | | | | |
| Know how to give and respond to feedback | | | | | | | | | | | |
| based on quizzes made. | | | | | | | | | | | |
| Know how to create their own grammar | | | | | | | | | | | |
| games. | | | | | | | | | | | |
| Know how to use multiple pieces of software to | | | | | | | | | | | |
| enhance a quiz. E.g. creating a quiz that requires | | | | | | | | | | | |
| children to look up information on a database | | | | | | | | | | | |

| audience | audio | clone | preview | cloze | case-sensitive | |
|-----------|-------|--------|---------|-------|----------------|--|
| addionioo | addio | 0.01.0 | proviou | 0.020 | odoo oonomiii | |

| abstraction | action | algorithm | concatenation | debug | debugging | decomposition | efficient | flowchart |
|---------------|-------------------|-------------------|---------------|-----------------------------|---------------|---------------|-----------------|---------------|
| citation | collaborate | communication | copyright | creative commons license | encrypt | ownership | PEGI rating | malware |
| phishing | password | smart rules | validity | identity theft | rows | columns | data | spreadsheet |
| formula | format | formula bar | variable | personal information | how many tool | arrange | avatar | chart |
| collaborative | database | formula wizard | field | reliable source | group | record | search | statistics |
| sort | animation | image | texture | advance mode | computer game | instructions | perspective | customise |
| interactive | evaluation | screenshot | playability | totalling tool | 2D | 3D | 3D printing | design brief |
| template | pattern fill | points | net | database report | concept | concept map | connection | collaborate |
| node | caps lock | captions | cursor | CAD – computer aided design | document | font | hyperlink | formatting |
| merge cells | reliability | command | story mode | presentation mode | emulator | simulator | external device | host |
| input | QR code | output | sensor | bulleted lists | co-ordinates | event | decomposition | execute |
| data analysis | digital footprint | inappropriate | print screen | copy and paste | screen time | spoof | secure websites | run |
| approval | archive | blog | blog post | creative commons | commenting | Vlog | sprite | selection |
| function | flow of control | step through | hub | page orientation | switch | router | audience | audio |
| clone | preview | wide area network | network | location sharing | quiz | base 2 | bit | base 10 |
| digit | integer | world wide web | internet | text-based adventure | nibble | byte | kilobyte | megabyte |
| transistor | range | case-sensitive | Wi-Fi | Local area network | gigabyte | terabyte | cell reference | text wrapping |