# E-Safety

| Year 1  | Year 2  | Year 3  | Year 4   | Year 5   | Year 6   |
|---|---|---|--|--|--|
| Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.  |   | Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.  |  |  |  |
| Begin to understand how to stay SMART (safe, meet, accept, reliable, tell) online.  Understand how to search for safe images.  Identify some personal information and begin to understand how it can affect safety online.  Understand that there are digital ways to communicate, e.g. email.  Tell a trusted adult if they see something inappropriate online.  Save, name and date digital | Understand how to stay SMART online.  Understand whether a webpage is suitable for children or not.  Understand what a digital footprint is.  Identify some forms of digital communication, e.g. email.  Identify kind and unkind behaviour online. | Understand how websites use adverts to promote products.  Begin to understand the importance of privacy settings.  Identify other platforms for digital communication, e.g. online gaming/apps.  Understand my digital footprint and how it can affect safety online.  Understand what cyberbullying is and some ways to address it.  Safely send and receive emails. | Understand how cyberbullying can affect someone.  Understand how to respond to unkind messages.  Understand the term plagiarism and how to avoid it.  Create a safe online profile with a strong password. | Identify spam emails and what to do with them.  Recognise when, why and how photographs we see online may have been edited.  Understand the consequences of my actions online.  Write citations for the websites I use for research. | Understand the positives and drawbacks of current technology, including social media.  Understand how the media influences ideas and opinions.  Identify a range of ways to report concerns.  Understand how to keep their private information secure online.  Compare cyberbullying to inperson bullying and identify effective strategies to deal with it. |
| work they create.  Safe, meet, accept, reliable, tell, personal information, online, safety, digital, communicate, save, date, email.   | Safe, meet, accept, reliable, tell, digital footprint, webpage.   | Digital platforms, cyberbullying, privacy, advertisement.   | Plagiarism, password, secure, profile.   | Citation, spam, edited.  | Social media.  |

## Technology, Software and Programs

| Year 1  | Year 2   | Year 3  | Year 4  | Year 5  | Year 6   |  |
|---|--|---|---|---|--|--|
| Use technology purposefully to create, organise, store, manipulate and retrieve digital content.  Recognise common uses of information technology beyond school.  |  | Understand computer networks including the internet; how they can provide multiple services, such as the WWW; and the opportunities they offer for communication and collaboration.  Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.  Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. |   |   |  |  |
| Identify and discuss forms of information technology in the home and school.  Begin to understand the purpose of a search engine.  Understand that information is presented in many ways (e.g. text, images and videos).  Open the internet browser.  Use a given webpage to find some facts or an image to answer a specific question. | Identify and discuss forms of information technology in the wider world.  Understand the purpose of a search engine.  Understand the need for safety filters.  Describe some likes and dislikes about a webpage.  Use a safe search engine to find facts and images to answer a specific question, e.g. how high is the Eiffel Tower?  Identify key words in a question to use in a search engine. | Name a range of programs and some of their basic features.  Begin to understand that not all information online is reliable.  Begin to decide whether a website is useful and appropriate.  Use a safe search engine to find facts and images about a specific topic, e.g. the Eiffel Tower.  Identify some key facts from a chunk of text or a video.  | Suggest a program that could be used based on its features.  Understand that not all information online is reliable and how it is inputted (Wikipedia).  Decide whether a website is useful and appropriate.  Use a safe search engine to find facts about a topic, e.g. Paris.  Identify relevant key facts from a chunk of text or a video. | Justify why they have chosen to use a specific program.  Identify who a webpage may be aimed at and explain why.  Use a safe search engine to find facts about a wider topic, e.g. capital cities.  Navigate their way around a webpage to find relevant information, including using hyperlinks. | Understand the purpose, strengths and drawbacks of different programs.  Understand how results are selected and ranked, including wording used for initial search.  Select relevant information from a webpage.  Compare information from two different sources. |  |

### Microsoft Office

| 0.51                                | 1 00 01                            |   | C ( ) ( ) ( )                           | TT *1 *                                 | m e                           |
|-------------------------------------|------------------------------------|---|---|---|-------------------------------|
| Switch on a computer and log on     | Log on and off safely.             | Save documents in a specific  | Create a folder to save a               | Use a wider range shortcuts.            | Type proficiently.            |
| and off (with adult support).       |                                    | location.   | document into.                          | TT 1 1 16 1                             |                               |
|                                     | Open and close a program.          |   |   | Use headers and footers, and            | Insert objects and use a      |
| Open a program or previously        | Save a document with an            | Begin to type using both hands and  | Begin to use simple shortcuts,          | add automatic page numbers              | range of tools and features.  |
| saved work (with adult support)     | appropriate name. (MS              | use punctuation marks, including  | e.g. ctrl and c to copy.                | and dates (MS Word)                     |                               |
| and close a program. (MS Word)      | PowerPoint, MS Word, MS            | using shift. (MS PowerPoint, MS   |   |   | Choose an appropriate         |
|                                     | Excel)                             | Work)   | Insert a hyperlink to a webpage         | Use anchors to allow text to            | layout, e.g. margins,         |
| Save a document with an             |                                    |   | (MS PowerPoint, MS Word)                | flow across multiple text boxes         | tables, orientation,          |
| appropriate name (with support).    | Print a document. (MS              | Change the design and layout of a   |   | e.g. News paper writing (MS             | columns.                      |
| (MS Word)                           | PowerPoint, MS Word, MS            | document, e.g. background, borders,   | Insert a table and use editing          | Word)                                   |                               |
|                                     | Excel)                             | orientation, columns, margins (MS   | tools to remove borders (MS             |   | Choose an appropriate         |
| Print a document (with support).    |                                    | PowerPoint, MS Work)  | PowerPoint, MS Word)                    | Change text wrapping in                 | design depending on the       |
| (MS Word)                           | Use shift/caps lock to write       |   |   | images, allowing text to move           | formality of the document,    |
|                                     | upper- and lower-case letters      | Insert bullet points or a numbered  | Understand why the red and blue         | closely around the objects              | e.g. font, size, colour,      |
| Type and draw shapes in a           | when typing. (MS PowerPoint,       | list. (MS PowerPoint, MS Work)  | error lines occur and use right         | automatically (MS Word)                 | borders.                      |
| document. (MS Word)                 | MS Word)                           |   | click to correct mistake (MS            |   |                               |
|                                     |                                    | Use a range of slides (MS   | PowerPoint, MS Word)                    | Use a range of tools to edit a          | Review and edit               |
| Use the computer mouse or           | Align text/titles using the align  | PowerPoint)   |   | table, e.g. merge cells, insert         | documents using a range       |
| trackpad to move, click and drag    | text tool.                         | , in the second | Insert a range of transitions and       | row, align text, shading (MS            | of tools.                     |
| objects.                            |                                    | Input data into a spreadsheet to  | animations. (MS PowerPoint)             | Excel, Word, PowerPoint)                |                               |
|                                     | Insert images using Online         | create a database. (MS Excel)   | , | , | Create and present an         |
| Change font, colour or size of      | Pictures. (MS PowerPoint, MS       |   | Apply and use filters to order and      | Use appropriate transition or           | effective presentation        |
| text. (MS Word)                     | Word)                              | Find and highlight specific cells,  | sort data. (MS Excel)                   | animation for effect                    | using a range of features.    |
| (2.13 ( 2.14)                       |                                    | rows and columns. (MS Excel)  | sort data! (I.15 Enter)                 | (PowerPoint)                            | using a range of reasures.    |
| Insert, resize and rotate an image. | Insert shapes and begin to edit    | To we and columns (Mes Enect)   | Format spreadsheet/tables or            | (1 o well olin)                         | Sort, filter and use other    |
| (MS Word)                           | them, e.g. changing fill colour,   | Use text boxes  | shade rows, columns and                 | Use a wider range of formulas           | formulas to find specific     |
| (MS Word)                           | size and outlines. (MS             | OSC TEAT BOXES  | individual cells (MS Excel)             | to find specific information            | information more              |
|                                     | PowerPoint, MS Word)               |   | marviduai cens (WIS Exect)              | (MS Excel)                              | efficiently.                  |
|                                     | Towerrount, wis word)              |   |   | (WIS Exect)                             | emerciary.                    |
|                                     | Use bold, italics and underline    |   |   | Create graphs from data (MS             | Create a wider range of       |
|                                     | features. (MS PowerPoint, MS       |   |   | Excel)                                  | graphs and add a title and    |
|                                     | Word)                              |   |   | Exect)                                  | axis labels.                  |
|                                     | Wold)                              |   |   |   | axis labels.                  |
|                                     | Create a short presentation by     |   |   |   |                               |
|                                     | inserting and editing slides. (MS  |   |   |   |                               |
|                                     | PowerPoint)                        |   |   |   |                               |
|                                     | PowerPoint)                        |   |   |   |                               |
|                                     | Use convend neets                  |   |   |   |                               |
|                                     | Use copy and paste.                |   |   |   |                               |
|                                     |                                    |   |   |   |                               |
|                                     |                                    |   |   |   |                               |
|                                     |                                    |   |   |   |                               |
| D 1 1 00                            | 0 1 2 61                           | 0 011 1: 44/40 7:0  |   | D 1 22                                  | 0.6                           |
| Browser, log on, log off, open,     | Search engine, filters, uppercase, | Source, folder, drive, A4/A3, shift,  | Shortcut, hyperlink, table, tab,        | Replace, merge, split, align,           | Software, review, axis,       |
| save, print, type, draw, icon,      | lowercase, document, text box,     | background, border, orientation,  | control, header, footer, spell          | centre, shading, formula,               | chart, title, align, justify. |
| resize, rotate, insert, font, drag, | copy, paste, shape, edit, outline, | columns, margin, bullet points,   | check, grammar, sort, filter,           | graph, wrapping, Transitions            |                               |
| click, mouse, trackpad, left click, | fill, bold, italics, underline,    | spreadsheet, data, database, cell,  | transition, animation, validity.        | and animation                           |                               |
| right click.                        | presentation, slide, hyperlink.    | row, column, reliable.  |   |   |                               |

### Algorithms

| Year 1                                     | Year 2  | Year 3                           | Year 4                   | Year 5                     | Year 6            |
|--|---|----------------------------------|--------------------------|----------------------------|-------------------|
| Understand what algorithms are; how they   | Design, write and debug programs that accomplish specific goals, including controlling or simulating    |                                  |                          |                            |                   |
| programs execute by following precise and  | physical systems; solve problems by decomposing them into smaller parts.                                |                                  |                          |                            |                   |
| programs. Use logical reasoning to predict | Use sequence, selection, and repetition in programs; work with variables and various forms of input and |                                  |                          |                            |                   |
|  |   | output.                          |                          |                            |                   |
|  |   | Use logical reasoning to explain | how some simple algorith | hms work and to detect and | correct errors in |
|  |   | algorithms and programs.         |                          |                            |                   |
| Understand that an algorithm is a set of   | Understand why it is important to be precise when writing   | Scratch                          | Scratch                  | Scratch                    | Scratch           |
| instructions given to a computer in order. | an algorithm.   | Create sprites and backdrops     | Start commands in        | Create and edit            | Design a game     |
|  |   |                                  | different ways e.g.      | variables.                 | using conditional |
| Children follow a set of commands          | Bee-Bot   | Carry out a sequence with        | flag, messages, key      |                            | statements, loops |
| (stand, sit, spin and jump) ranging from   | Carry out a sequence with multiple commands to go along   | multiple commands, including     | press and button         | Use a wider range of       | (repeat),         |
| single commands to an algorithm (string    | a specific route.   | glide and turning.               |                          | conditional statements     | variables and     |
| of code)                                   |   |                                  | Animate a sprite by      | to control the sprite.     | broadcast         |
|  | Make sensible predictions about where a Bee-Bot may   | Use other code to change         | using change costume     |                            | messages.         |
| Bee-Bot                                    | stop from a set of instructions.  | costume                          | and repeat functions.    | Design a simple game       |                   |
| Carry out a sequence using single          |   |                                  |                          | including sprites,         | Evaluate the      |
| command, one at at time e.g. forwards,     | Debug an algorithm e.g. robot turns in the wrong direction  | Detect and correct errors in a   | Use conditional          | backgrounds, scoring       | effectiveness of  |
| backwards and turn.                        | or rolls too far.   | pre-made set of code (debug)     | statements within the    | and/or timers.             | the game and      |
|  |   |                                  | program to control the   |                            | debug as          |
| Programme the Bee-Bot to get from one      | Scratch Junior  |                                  | sprite (e.g. if then)    | Detect and correct         | required.         |
| point to another along a specific route.   | Choose a new sprite or background.  |                                  |                          | errors in algorithms as    |                   |
|  |   |                                  | Detect and correct       | necessary.                 | Annotate any      |
| Make sensible predictions about where a    | Carry out a sequence with multiple commands, including  |                                  | errors in algorithms as  |                            | code used in      |
| Bee-Bot may stop from a simple set of      | increasing or decreasing size of sprite.  |                                  | necessary.               | Annotate code used         | detail            |
| instructions.                              |   |                                  |                          |                            |                   |
|  | Use other simple commands, left, right, up, down, repeat  |                                  |                          |                            |                   |
|  | and sounds.   |                                  |                          |                            |                   |
|  |   |                                  |                          |                            |                   |
|  | Debug a set of instructions when necessary.   |                                  |                          |                            |                   |
| Algorithm, sequence, string, single        | Multiple commands, clockwise, anticlockwise, increase,  | Degrees, sprite, motion, code,   | Conditional              | Scoring, timers.           | Broadcast         |
| command, forwards, backwards, turn,        | decrease, sprite, background, debug, repeat.  | detect, correct, errors,         | statements, repeat,      |                            | messages, loops,  |
| left, right, route, Bee-Bot, instructions, |   | percentages                      | costume.                 |                            | effectiveness.    |
| predictions.                               |   |                                  |                          |                            |                   |

## Multimedia

| Year 1   | Year 2                           | Year 3  | Year 4                           | Year 5                            | Year 6                           |  |
|--|----------------------------------|---|----------------------------------|-----------------------------------|----------------------------------|--|
| Use technology purposefully to create, organise, store, manipulate |                                  | Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of   |                                  |                                   |                                  |  |
| and retrieve digital content.                                      |                                  | programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. |                                  |                                   |                                  |  |
| Recognise common uses of inform                                    | nation technology beyond school. |   |                                  |                                   |                                  |  |
| Use ICT to generate ideas for                                      | Photography                      | Photography   | iMovie/Movie Maker               | Animation                         | Animation                        |  |
| their work.  |                                  |   |                                  | Plan what they would like to      | Plan a multi-scene animation     |  |
|  | Capture still images using a     | Capture still images using a  | Story board and film a short     | happen in their animation.        | including characters, scenes and |  |
| Use various tools such as  | range of simple angles and       | wide range of angles and  | movie.                           |                                   | special effects.                 |  |
| brushes, pens, rubber, stamps                                      | distances.                       | distances.  |                                  | Take a series of pictures to form |                                  |  |
| and shapes (smart notebook is                                      |                                  |   | Edit Trim and arrange clips to   | an animation or design the        | Adjust the number of             |  |
| very good for this)  | Use effects, crop and colour     | Use angles and distance to  | convey meaning.                  | backgrounds and characters if     | photographs taken and the        |  |
|  | tools to manipulate images       | create digital effects  |                                  | using scratch to animate          | playback rate to improve the     |  |
| Capture simple pictures and  |                                  |   | Add titles, credits, slide       |                                   | quality of the animation         |  |
| videos on a camera and share                                       | Use sensors to capture data from | Input still images into   | transitions and special effects. | Move items within their           |                                  |  |
| there work.  | different source input           | iMovie/movie maker and add  |                                  | animation to create movement      | Publish their animation and use  |  |
|  | devices/sensors                  | shot name as title  |                                  | on playback.                      | a movie editing package to       |  |
| Use software to record different                                   |                                  |   |                                  |                                   | edit/refine and add titles.      |  |
| sound.   |                                  |   |                                  | Edit and improve their            |                                  |  |
|  |                                  |   |                                  | animation.                        |                                  |  |
| Tools, brush, pen, rubber,   | Save, retrieve, edit, purpose,   | Arrange, film, title, credits,  | Trim, slide transitions, special | Animation, series of pictures,    | Multi-scene, camera angles,      |  |
| stamp, shape, software,  | delete.                          | discard, audience, clip.  | effects.                         | playback, scenes.                 | special effects, playback rate,  |  |
| photograph, capture, video,  |                                  |   |                                  |                                   | quality, publish, refine.        |  |
| record, sound.   |                                  |   |                                  |                                   |                                  |  |