

WHOLE SCHOOL STICKY KNOWLEDGE OVERVIEW - COMPUTING



EYFS

| Digital Literacy | Computer Science | Information Technology |
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| Coming soon | Coming soon | Coming soon |
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| Digital Literacy | Computer Science | Information Technology |
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| <u>1.1</u> Online Safety | 1.2 Grouping and sorting | <u>1.2</u> Pictograms |
| -To log in and out safely. | - sort items using a range of criteria | -undertsand that data can be represented in pictures |
| -To learn how to find saved work in the Online | 1.4 Lego builders | -use a pictogram |
| Work area. | - to follow and create simple instructions on the | |
| -To learn how to open, save and print. | computer | 1.6 Animated storybooks |
| | -Consider how the order of instructions affect | -add animation to a story |
| 1.9 Technology outside | the result | -add sound to a story |
| -Be aware of technology outside school and give | | -add backgrounds |
| examples | <u>1.5 Maze explorers</u> | -copy and paste pages. |
| | -to understand how direction keys work | |
| | create and debug a set of instructions | <u>1.8 Spreadsheets</u> |
| | (algorithms) | -enter data into cells |
| | change and extend an algorithm list | -add clip art to cells |
| | | -begin to use control tools: lock, move cell and count |
| | 1.7 Coding | |
| | - use code to plan and make a computer program | |
| | -understand an event and use to control an object | |
| | understand backgrounds and objects. | |

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| 2.2 Online Safety | 2.1 Coding | 2.3 Spreadsheets |
| -To know how to use a search tool. | -create computer program using an algorithm | - to use control tools: lock, move cell and totalling and |
| -share work safely within PM | -understand the collision detection event. | equals tools |
| -To open and send simple emails | -design an algorithm that follows a timed sequence | -can copy and paste |
| understand respectful online interactions | - Understand what different events do. | 2.4 Questioning |
| - Identify how to keep personal data safe | - understand and debug simple programs. | -use yes/no questions to separate information |
| | | - use a database to answer more complex search questions |
| 2.5 Effective searching | | - to use a binary tree to answer questions. |
| - search the internet safely with precision | | |
| | | 2.6 Making music |
| | | -explore edit and combine sounds |
| | | - record and upload sounds |
| | | 2.8 Presenting ideas |
| | | - create a quiz |
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| Digital Literacy | Computer Science | Information Technology |
| <u>3.2 Online Safety</u> | 3.1 Coding | <u>3.3 Spreadsheets</u> |
| -Understanding how to create and keep a safe | Understand flow charts and how they are used in | - use advanced mode and cell references |
| password | computer programming. | -collect data and produce graphs |
| -understand how the internet can be used to | -understand and use different types of timers. | 3.4 Touch typing |
| communicate (blogs) | - understand how to use the repeat command. | -use the home, top and bottom row keys |
| - Consider the reliability of website content | -understand the importance of nesting. | 3.6 Branching databases |
| - To learn about the meaning of age | | - use yes or no questions to sort objects |
| | | |

-create a branching database with support

- enter data into a graph and answer questions

- explore and evaluate a simulation

-add slides, media, shapes and lines

3.9 Presenting with PPT

3.7 Simulation

3.8 Graphing

- to format text

- To learn about the meaning of age restrictions on digital media and devices (PEGI)

<u>3.5 Email</u>

- To open and respond using an address book -use email safely including in a simulated scenario -add an attachment

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| <u>4.2 Online Safety</u> | 4.1 Coding | 4.3 Spreadsheets |
| -Know how to protect yourself from online | -understand how an IF/ELSE statement works. | -to format cells as currency, percentage, fractions and |
| identity theft | -understand the 'repat until' command. | decimals (to different places) |
| -Understand that digital footprints can led to | - use a number variable. | -to add formula to a cell for calculations |
| identity theft | | - use a spreadsheet to model a real-life situation |
| - Understand the term 'plagiarism' and its | <u>4.5 Logo</u> | |
| consequences. | -understand the language and structure of Logo. | 4.6 Animation |
| -To understand the importance of balancing | -input simple instructions | - add backgrounds and sounds to animations |
| screen time with other parts of their life. | - use the repat function in Logo. | - add 'stop motion' |
| -To identify respectful behaviour when working | | - to share animation on a display board/blogging. |
| collaboratively online. | <u>4.8 Hardware investigators</u> | |
| | -recall the different parts that make up a | <u>4.9 Making Music</u> |
| <u>4.7 Effective searching</u> | computer | - to electronically compose a piece of music |
| -locate information on the search results page. | | |
| - Search effectively to find out information | | |
| -assess reliability of information source. | | |

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| 5.2 Online Safety | 5.1 Coding | 5.4 Databases |
| -understanding the impact of sharing digital | - understand and program simulation | - learn how to search for information on a database |
| content | - begin to understand decomposition and | - create a database with support |
| - review sources of support when using | abstraction. | |
| technology and children's responsibility to one | - understand what functions are in code | <u>5.6 Modelling</u> |
| another in their online behaviour | -understand different variable types and their | -explore the effect of moving points when designing |
| - Be aware of appropriate and inappropriate | uses. | |
| text, photos and videos and the impact of | - begin to use concatenation | 5.8 Google Docs |
| sharing these online (including altering digital | - be able to create a string. | - to add and edit images |
| images) | | - know how to use word wrap with images and text |
| -understand the importance of referencing | <u>5.5 Game creator</u> | - use the sharing capabilities in Google Docs |
| sources. | -to design, create and evaluate a game. | -use tables to present information |
| | | - use templates within Google Docs. |

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| <u>6.2 Online Safety</u> | 6.1 Coding | <u>6.3 Spreadsheets</u> |
| -identify benefits and risks of mobile devices | -plan and use selection and variables | - use a spreadsheet for real life purposes |
| broadcasting their location | - understand how the launch command works | |
| - identify secure sites by looking for privacy | - understand how functions are created and called. | <u>6.4 Blogging</u> |
| seals of approval | -use flowcharts to create and debug code | -plan the theme and content for a blog |
| -apply the understanding of the importance on | -understand how devices can be controlled within | -understand how to write a blog on a blog post |
| balancing screen time with other parts of their | a simulation | |
| lives. | | <u>6.7 Quizzing</u> |
| - routinely apply the principles of the smart | <u>6.6 Networks</u> | - create a quiz for an audience |
| rules. | - learn about what the internet consists of | |
| | -find out what an LAN and WAN is | 6.9 Spreadsheets with google sheets |
| | | - use formulae for percentages, averages, max/mir |
| | 6.8 Binary | - use a spreadsheet to model a situation |
| | - recognise that digital systems represent all | - create a variety of graphs and sheets |
| | types of data using number codes that are | |
| | patterns of 1s and 0s (called binary digits) | |