



|               | E-safety |  |  |   |   |  |
|---------------|----------|--|--|---|---|--|
| Year<br>Group | Unit     | National Curriculum  | Skills   | Resource  |   |  |
| Y1            | E-Safety | Use technology safely<br>and respectfully,<br>keeping personal<br>information private;   | <ol> <li>Keep personal information private.</li> <li>Why do websites want personal information.</li> <li>Identify when and where to go for help when concerned.</li> </ol>   | https://www.ilearn2.co.uk/e-safetykey-stage-<br>1.html/<br>Twinkl e-safety resources  |   |  |
| Y2            | E-Safety | identify where to go for<br>help and support when<br>they have concerns<br>about content or contact<br>on the internet or other  | identify where to go for<br>help and support when<br>they have concerns<br>about content or contact  | identify where to go for<br>help and support when<br>they have concerns<br>about content or contact<br>on the internet or other<br>applies technologies | <ol> <li>What are the dangers of sharing photos<br/>online?</li> <li>People are not always who they say they are<br/>online.</li> <li>Trusting information online.</li> <li>Using the Internet responsibly.</li> <li>Being respectful.</li> </ol> | https://www.ilearn2.co.uk/e-safetykey-stage-<br>1.html/<br>Twinkl e-safety resources |
| Y3            | E-Safety | Use technology safely<br>and respectfully,<br>keeping personal<br>information private;<br>identify where to go for<br>help and support when<br>they have concerns<br>about content or contact<br>on the internet or other<br>online technologies | <ol> <li>Understand what to do if something upsets<br/>you online.</li> <li>Understand why and how people can be<br/>nasty online.</li> <li>Describe the term 'sharing online' and why<br/>we need to get permission to share photos<br/>and videos of other people.</li> <li>Understand why people pretend to be<br/>someone else online.</li> <li>Understand why we only talk to people we<br/>know in the real world, when online.</li> <li>Understand why we should not always trust<br/>what we read online and how to check</li> <li>Understand the importance of being kind in<br/>the real world and also online.</li> </ol> | https://www.ilearn2.co.uk/e-safetykey-stage-<br>2.html/<br>TwinkI e-safety resources  |   |  |
| Y4            | E-Safety |  | <ol> <li>Understand what to do if something upsets<br/>you online.</li> <li>Understand why and how people can be<br/>nasty online.</li> <li>Describe the term 'sharing online' and why<br/>we need to get permission to share photos<br/>and videos of other people.</li> </ol>  | https://www.ilearn2.co.uk/e-safetykey-stage-<br>2.html/<br>Twinkl e-safety resources  |   |  |





|    |                              |   | <ol> <li>Understand why people pretend to be<br/>someone else online.</li> <li>Understand why we only talk to people we<br/>know in the real world, when online.</li> <li>Understand why we should not always trust<br/>what we read online and how to check</li> <li>Understand the importance of being kind in<br/>the real world and also online.</li> </ol>   |  |
|----|------------------------------|---|---|--|
| Y5 | E-Safety                     |   | <ol> <li>Keep personal information private.</li> <li>Respect and protect again online bullies.</li> <li>Understand the consequences of sharing photo/videos online.</li> <li>Understand the term digital footprint.</li> <li>How can we check online content is trustworthy.</li> <li>How and where and who can we report concerns we have to.</li> </ol>   | https://www.ilearn2.co.uk/e-safetykey-stage-<br>2.html/<br>Twinkl e-safety resources   |
| Y6 | E-Safety                     |   | <ol> <li>Keep personal information private.</li> <li>Respect and protect against online bullies.</li> <li>Understand the consequences of sharing<br/>photo/videos online.</li> <li>Understand the term digital footprint.</li> <li>How can we check online content is<br/>trustworthy.</li> <li>How, where and who can we report concerns<br/>we have to.</li> <li>Use suitable usernames and passwords for<br/>online accounts.</li> </ol> | https://www.ilearn2.co.uk/e-safetykey-stage-<br>2.html/<br>Twinkl e-safety resources   |
|    |                              |   | Mouse and Keyboard Skill  | S  |
| Y1 | Keyboard and<br>Mouse Skills | Use technology<br>purposefully to create,<br>organise, store, | <ol> <li>Mouse and keyboard skills; move mouse,<br/>left/right click, drag and drop.</li> <li>Typing; Find letters on keyboard and begin<br/>touch typing with home row keys.</li> </ol>  | https://www.ilearn2.co.uk/eyfsyear-1-mouse-and-<br>keyboard-skills.html/<br>(4-6hours) |





| Y2 | Typing | manipulate and retrieve digital content   | <ol> <li>Mouse and keyboard skills; move mouse,<br/>left/right click, drag and drop.</li> </ol>   | https://www.ilearn2.co.uk/touch-typing.html/ |
|----|--------|---|---|--|
|    |        |   | <ol> <li>Typing; Find letters on keyboard and begin<br/>touch typing with home row keys.</li> </ol>   |  |
|    |        |   | 3. To use capslock and spacebar   |  |
| Y3 | Typing | Select, use and combine<br>a variety of software<br>(including internet<br>services) on a range of<br>digital devices to design<br>and create a range of      | <ol> <li>Mouse and keyboard skills; move mouse,<br/>left/right click, drag and drop.</li> <li>Typing; Find letters on keyboard and begin<br/>touch typing with home row keys.</li> <li>To use capslock and spacebar</li> <li>Learn f d s a j k I; g and h<br/>e I r u</li> </ol>  | https://www.ilearn2.co.uk/touch-typing.html/ |
| Y4 | Typing | programs, systems and<br>content that accomplish<br>given goals, including<br>collecting, analysing,<br>evaluating and<br>presenting data and<br>information. | <ol> <li>Mouse and keyboard skills; move mouse,<br/>left/right click, drag and drop.</li> <li>Typing; Find letters on keyboard and begin<br/>touch typing with home row keys.</li> <li>To use capslock and spacebar</li> <li>Learn f d s a j k l; g and h<br/>e l r u</li> <li>Learn v m b n c x z , capital letters, '\.</li> </ol>  | https://www.ilearn2.co.uk/touch-typing.html/ |
| Y5 | Typing |   | <ol> <li>Mouse and keyboard skills; move mouse,<br/>left/right click, drag and drop.</li> <li>Typing; Find letters on keyboard and begin<br/>touch typing with home row keys.</li> <li>To use capslock and spacebar</li> <li>Learn f d s a j k I; g and h<br/>e I r u</li> <li>Learn v m b n c x z , capital letters, '\.</li> <li>Finger reaches for the full alphabet</li> <li>Using the finger reach method, introduce<br/>index and middle finger letter keys, Space<br/>Bar, and proper posture</li> <li>Using the finger reach method, introduce<br/>beginning punctuation and more index,<br/>middle, ring, and little finger letter keys</li> </ol> | https://www.ilearn2.co.uk/touch-typing.html/ |





|    |                          |  | 9. Introduce remaining letter keys and Enter key  |  |
|----|--------------------------|--|---|--|
| Y6 | Typing                   |  | <ol> <li>Mouse and keyboard skills; move mouse,<br/>left/right click, drag and drop.</li> <li>Typing; Find letters on keyboard and begin<br/>touch typing with home row keys.</li> <li>To use capslock and spacebar</li> <li>Learn f d s a j k l; g and h<br/>e l r u</li> <li>Learn v m b n c x z , capital letters, '\.</li> <li>Finger reaches for the full alphabet</li> <li>Using the finger reach method, introduce<br/>index and middle finger letter keys, Space<br/>Bar, and proper posture</li> <li>Using the finger reach method, introduce<br/>beginning punctuation and more index,<br/>middle, ring, and little finger letter keys.</li> <li>Introduce remaining letter keys and Enter key</li> <li>Practice common English words and easy<br/>Home, Top, and Bottom Row words</li> <li>Teach capitalisation, punctuation, sentences,<br/>and short paragraphs</li> </ol> | https://www.ilearn2.co.uk/touch-typing.html/                           |
|    |                          | C  | Computing in the Wider Wo   | rld  |
| Y1 | N/A                      | N/A  | N/A   | N/A  |
| Y2 | Recognise the uses of IT | Recognise common<br>uses of information<br>technology beyond<br>school | <ol> <li>Understand what makes a computer a computer.</li> <li>Understand computers store and follow instructions.</li> <li>Spot digital technology in school.</li> <li>Understand how different technology helps us.</li> </ol>  | Preview - Year 2 Uses of IT - Primary Computing Resources<br>- iLearn2 |





| Y3 | Document<br>Editing and<br>Creation    | Select, use and combine<br>a variety of software<br>(including internet<br>services) on a range of<br>digital devices to design<br>and create a range of<br>programs, systems and  | <ol> <li>Copy and Paste text and images.</li> <li>Find and replace words.</li> <li>Format text for a purpose.</li> <li>Add bullet points to make lists.</li> <li>Experiment with keyboard shortcuts.</li> </ol>  | Preview - Year 3 Document Creation - Primary Computing<br>Resources - iLearn2    |
|----|--|--|--|--|
| Y4 | Internet                               | content that accomplish<br>given goals.<br>Use search technologies   | 1. Use search technologies to find specific pieces   | Year 4 Internet Research - Primary Computing Resources -                         |
|    | Research                               | effectively, appreciate<br>how results are selected<br>and ranked, and be<br>discerning in evaluating<br>digital content.  | <ul> <li>of information.</li> <li>2. Understand features of an Internet Browser.</li> <li>3. Reference the correct source of information.</li> <li>4. Be discerning in evaluating digital content.</li> <li>5. Check the internet for fake news by cross-referencing facts.</li> </ul>   | <u>iLearn2</u>   |
| Y5 | Computer<br>Networks + the<br>Internet | Understand computer<br>networks, including the<br>internet; how they can<br>provide multiple<br>services, such as the<br>World Wide Web, and<br>the opportunities they<br>offer for communication<br>and collaboration.      | <ol> <li>Understand Computer Networks, Internet and<br/>Cloud Computing and how they help us.</li> <li>What is email and how can we use it safely?</li> <li>Understand how and why we collaborate<br/>online (including blogging).</li> </ol>  | Year 5 Computer Networks Activity Pack- Primary<br>Computing Resources - iLearn2 |
| Y6 | Machine<br>Learning and<br>A.I         | Select, use and combine<br>a variety of software<br>(including internet<br>services) on a range of<br>digital devices to design<br>and create a range of<br>programs, systems and<br>content that accomplish<br>given goals. | <ol> <li>Understand how computers use information to<br/>learn by solving new problems and following new<br/>instructions.</li> <li>Understand and use examples of machine<br/>learning.</li> <li>Understand how artificial intelligence is used to<br/>perform tasks often only performed by humans.</li> <li>Discuss and show awareness<br/>of potential dangers of AI.</li> </ol> | Year 6 Machine Learning Activity Pack - Primary Computing<br>Resources - iLearn2 |





|    |                    |  | Multimedia Text and Image   | es   |
|----|--------------------|--|---|--|
| Y1 | Comic<br>Creation  | Use technology<br>purposefully to create,<br>organise, store,<br>manipulate and retrieve<br>digital content.<br>Recognise common uses<br>of information technology   | <ol> <li>Comic creation covers a wide range of<br/>objectives including:</li> <li>Add, resize and organise colour or picture<br/>backgrounds</li> <li>Add, resize, organise characters/objects to<br/>different panels</li> <li>Add narration using text and direct speech<br/>using speech bubbles.</li> </ol>       | https://www.ilearn2.co.uk/comiccreationteacher.html/<br>(3-4 hours)      |
| Y2 | E-Book<br>Creation | beyond school  | <ol> <li>Add a book cover with title, author, colour and<br/>image.</li> <li>Add multiple pages based on a theme.</li> <li>Add text on different pages.</li> <li>Add images on different pages to match the<br/>theme/text.</li> <li>Add voice recordings to match the text and<br/>theme.</li> </ol>                 | https://www.ilearn2.co.uk/eboookcreationks1.html/<br>(3-4 hours)         |
| Y3 | Comic<br>Creation  | Select, use and combine<br>a variety of software<br>(including internet<br>services) on a range of<br>digital devices to design<br>and create a range of<br>programs, systems and<br>content that accomplish<br>given goals. | <ol> <li>Add, resize and organise colour or picture<br/>backgrounds.</li> <li>Add, resize, organise characters/object to<br/>different panels.</li> <li>Add narration using text and direct speech<br/>using speech bubbles.</li> </ol>   | https://www.ilearn2.co.uk/comiccreationteacher.html/<br>(3-4 hours)      |
| Y4 | E-Book<br>Creation | Select, use and combine<br>a variety of software<br>(including internet<br>services) on a range of<br>digital devices to design<br>and create a range of<br>programs, systems and<br>content that accomplish<br>given goals. | <ol> <li>Add page colour and style then position and<br/>format text.</li> <li>Add and position images from camera/internet.</li> <li>Add audio, including hiding it behind an object.</li> <li>Add hyperlinks to text and images.</li> <li>Add and format shapes.</li> <li>Use hyperlinks for navigation.</li> </ol> | https://www.ilearn2.co.uk/year-4-ebook-<br>creation.html/<br>(3-5 hours) |





| Y5   | Ebook<br>Creation         | Select, use and combine<br>a variety of software<br>(including internet<br>services) on a range of<br>digital devices to design<br>and create a range of<br>programs, systems and<br>content that accomplish<br>given goals. | <ol> <li>Add page colour and style then position and<br/>format text.</li> <li>Add and position images from camera/internet.</li> <li>Add audio, including hiding it behind an object.</li> <li>Add hyperlinks to text and images.</li> <li>Add and format shapes.</li> <li>Use hyperlinks for navigation.</li> </ol>  | https://www.ilearn2.co.uk/year-5-ebook-<br>creation.html/<br>(3-5hours) |
|------|---------------------------|--|--|---|
| Y6   | Web Design                | Design and create digital<br>content to accomplish<br>goals.   | <ol> <li>Add and format text within a website.</li> <li>Organise sections of web-pages and multiple<br/>page with relevant titles.</li> <li>Add and edit images.</li> <li>Include other features such as hyperlinks,<br/>buttons and files.</li> <li>Evaluate other websites and provide<br/>constructive feedback.</li> <li>Make necessary changes to the website based<br/>on feedback.</li> </ol> | https://www.ilearn2.co.uk/year-6-web-design.html/<br>(5-8 hours)        |
| EYFS | Digital Art and<br>Design | Children recognise that a<br>range of technology is used in<br>places such as homes and<br>schools. They select and use<br>technology for particular<br>purposes.  | <ol> <li>Uses simple tools and techniques<br/>competently and appropriately</li> <li>Selects appropriate resources and adapts<br/>them where necessary</li> <li>Explores how colours can be changed</li> <li>Chooses particularly colours to use for a<br/>purpose</li> </ol>  | https://www.ilearn2.co.uk/digital-artearly-<br>years.html/              |
| Y1   | Digital Art               | Use technology<br>purposefully to create,<br>organise, store,<br>manipulate and retrieve<br>digital content.   | <ol> <li>Change the colour of individual pixels to<br/>accurately re-create basic artwork.</li> <li>Make changes where required.</li> <li>Change the colour of individual pixels to<br/>accurately re-create detailed artwork.</li> </ol>  | https://www.ilearn2.co.uk/year1digitalart.html/<br>(1-2 hours)          |
| Y2   | Digital Art               |  | <ol> <li>Use lines and fill tools to make interesting<br/>patterns.</li> <li>Add a variety of shapes (outlines and fill) and<br/>label them with text.</li> </ol>  | https://www.ilearn2.co.uk/year-2-digital-art.html/<br>(3-4 hours)       |





|    |                           |   | 3. Re-create graphics using pixels with different colours.  |   |
|----|---------------------------|---|---|---|
| Y3 | Digital Art               | Select, use and combine<br>a variety of software<br>(including internet<br>services) on a range of<br>digital devices to design<br>and create a range of<br>programs, systems and | <ol> <li>Use various lines and fill tools plus copy/paste<br/>and rotation to create pattern effects.</li> <li>Use shapes, fill, copy/paste, zoom and flip to<br/>create reflective symmetry effects.</li> <li>Use stamps, copy/paste, layers<br/>and multiple frames to create animated GIF<br/>computer graphics.</li> </ol>        | https://www.ilearn2.co.uk/year3digitalart.html/<br>(4-6 hours)                  |
| Y4 | 3D Design<br>(3D village) | content that accomplish<br>given goals.   | <ol> <li>Understand 3D spacial awareness.</li> <li>Add 3D shapes, resize, adjust height,<br/>duplicate and use the different perspective.</li> <li>Re-create different types of buildings using 3D<br/>shapes.</li> <li>Create roads/paths by adjusting the height of<br/>3D shapes.</li> <li>Add windows and door shapes.</li> </ol> | https://www.ilearn2.co.uk/3ddesignteacher.html/<br>(3-4 hours)                  |
| Y5 | App Design                |   | <ol> <li>Adjust slide size to mimic a phone/tablet size.</li> <li>Add text and images to a slide.</li> <li>Add icons and text to use as navigation.</li> <li>Duplicate slides to create multiple pages of the app.</li> <li>Create hyperlinks to create navigation.</li> </ol>  | https://www.ilearn2.co.uk/appdesignteacher.html/<br>(4-6 hours)                 |
| Y6 | Graphic<br>Design         | Design and create digital<br>content to accomplish<br>goals.  | <ol> <li>Add, adjust and fill shapes.</li> <li>Group shapes to improve accuracy and speed.</li> <li>Add and customise gradient effects.</li> <li>Adjust transparency/opacity for a purpose.</li> <li>Use a colour picker correctly.</li> <li>Accurately rotate shapes.</li> </ol>   | https://www.ilearn2.co.uk/year6graphicdesign.html/<br>(2-3 hours)               |
|    |                           |   | Data Handling   |   |
| Y1 | Data Handling             | Use technology<br>purposefully to create,   | 1. to understand how data can be displayed in various ways including pictograms, bar charts, pie charts and tally charts.   | Top Marks<br>https://www.topmarks.co.uk/maths-games/5-7-<br>years/data-handling |





|    |               | organise, store,  | 2. Create own bar and tally charts.  |   |
|----|---------------|---|--|---|
| Y2 | Data Handling | manipulate and retrieve<br>digital content  | <ol> <li>Understand what data is and collect it as a tally.</li> <li>Label a pictogram and add data to each column.</li> <li>Edit a table with correct titles and numbers.</li> <li>Create a bar chart/pie chart/line chart suitable for the data.</li> <li>Interpret a pictogram/bar chart/line chart.</li> </ol> | https://www.ilearn2.co.uk/year-2-data-handling.html/<br>(3-4 hours)   |
| Y3 | Data Handling | Collect, classify and present data.   | <ol> <li>Add and label objects within a branching<br/>database.</li> <li>Ask questions to sort (classify) objects.</li> </ol>  | https://www.ilearn2.co.uk/year3branchingdatabases-<br>html/<br>(1hour)  |
| Y4 | Data Handling | Collecting, analysing,<br>evaluating and<br>presenting data and<br>information.   | <ol> <li>Change appearance of cells in a spreadsheet<br/>(fill colour and border) then add and align text.</li> <li>Find and add data to a spreadsheet, resize<br/>cells and use the software to create a suitable<br/>chart with a title.</li> </ol>  | https://www.ilearn2.co.uk/year4datahandling.html/<br>(3-4 hours)  |
| ¥5 | Data Handling | Select, use and combine<br>a variety of software<br>(including internet<br>services). Collecting,<br>analysing, evaluating<br>and presenting data and<br>information. | <ol> <li>Select and use non-adjacent cells plus<br/>resize multiple cell widths and copy/paste<br/>cells.</li> <li>Find data and create a spreadsheet to suit it.</li> <li>Use formulae to find totals, averages and<br/>maximum/minimum numbers.</li> <li>Search a database for specific information.</li> </ol>  | https://www.ilearn2.co.uk/year5datahandling-html/<br>(3-4 hours)  |
| Y6 | Data Handling | Select, use and combine<br>a variety of software<br>(including internet<br>services). Collecting,<br>analysing, evaluating<br>and presenting data and<br>information  | <ol> <li>Write spreadsheet formula to solve more<br/>challenging maths problems.</li> <li>I can create and publish my own online quiz<br/>with a range of media (images and video)</li> </ol>  | https://applieddigitalskills.withgoogle.com/c/middle-<br>and-high-school/en/guide-to-an-area/overview.html<br>https://kahoot.com/schools/ |





|      | Coding/Programming        |  |  |  |  |  |
|------|---------------------------|--|--|--|--|--|
| EYFS | Programming               | Children recognise that a<br>range of technology is<br>used in places such as<br>homes and schools.<br>They select and use<br>technology for particular<br>purposes.         | <ul><li>1.Knows how to operate simple equipment</li><li>2.Give instructions</li></ul>  | https://www.ilearn2.co.uk/early-programmingearly-<br>years.html/<br>https://beebot.terrapinlogo.com/ |  |  |
| Y1   | Introduce<br>Programming  | Understand what<br>algorithms are; how<br>they are implemented<br>as programs on digital<br>devices; and that<br>programs execute by<br>following precise and<br>unambiguous | <ol> <li>Understand sequence and algorithms. (All activities)</li> <li>Sequence instructions (commands) to achieve an objective. (All activities)</li> <li>Use distances in commands. (extension task of activity 4)</li> <li>Predict, write, execute and debug a simple program. (Activity 3 onwards)</li> </ol>                                    | https://www.ilearn2.co.uk/year-1-programming.html/<br>5-7 hours                                      |  |  |
| Y2   | Develop<br>Programming    | instructions.<br>Create and debug<br>simple programs.<br>Use logical reasoning<br>to predict the<br>behaviour of simple<br>programs.   | <ol> <li>Create and debug simple programs by<br/>selecting code blocks, placing them in the<br/>correct sequence and executing a program.</li> <li>Use logical reasoning to predict the<br/>behaviour of simple programs.</li> <li>Simplify a program by using a loop.</li> </ol>  | https://www.ilearn2.co.uk/year-2-programming.html/<br>(3-4 hours)                                    |  |  |
| Y3   | Programming<br>In Scratch | Design, write and<br>debug programs that<br>accomplish specific<br>goal, including<br>simulating physical<br>systems.  | <ol> <li>Design, write and debug programs that<br/>accomplish specific goals. (Including outputs)</li> <li>Use repetition in programs. (Activity 2)</li> <li>Work with various form of inputs; keyboard,<br/>mouse and touch screen. (Activity 3 and 4<br/>below)</li> <li>Write programs that simulate physical<br/>systems (Activity 5)</li> </ol> | https://www.ilearn2.co.uk/y3scratch.html/<br>(4-6 hours)   |  |  |





| Y4 | Programming<br>in Scratch | Use sequence,<br>selection, and<br>repetition in programs;<br>work with various   | <ol> <li>Use sequence, selection, and repetition in<br/>programs.</li> <li>Work with variables and various forms of<br/>input and output.</li> <li>Debug programs that accomplish goals.</li> </ol>  | https://www.ilearn2.co.uk/y4scratch.html/<br>(6-8 hours) |
|----|---------------------------|---|--|--|
| Y5 | Programming               | forms of input.   | <ol> <li>4. Work with variables and conditions.</li> <li>1. Program list variables that chooses</li> </ol>   | https://www.ilearn2.co.uk/y5scratch.html/                |
| 13 | in Scratch                | Use logical reasoning to<br>explain how some simple<br>algorithms work and to<br>detect and correct errors<br>in algorithms and<br>programs | <ul> <li>randomly.</li> <li>2. Program inputs, conditions and sensing<br/>for interaction, data variables for scoring and<br/>a game timer.</li> <li>3.Program Inputs, outputs, loops, conditions,<br/>sensing and variables.</li> </ul>   | (5-7 hours)  |
| Y6 | Programming<br>in Scratch |   | <ol> <li>Program inputs, conditions, random<br/>variables for unpredictability, game timer.</li> <li>Program inputs, conditions,<br/>sensing, random variables, operators for<br/>direction and data variables for scoring.</li> <li>Use inputs, conditions, loops, sensing,<br/>costume changes and broadcasts.</li> <li>Work with multiple sprites to send<br/>broadcast messages between them.</li> </ol> | https://www.ilearn2.co.uk/y6scratch.html/<br>(6-8 hours) |