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|  | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Autumn 1 | * Know some different examples of technology * Know technology can be found in school, at home and all around us | * What is a camera * What is an ipad - tablet | * What is a branching database * Why is a branching database used | * What a search engine is * What does ‘text’ mean in the context of computing | * How search engines work. * How search engines rank sites. | * The pros and cons of editing images * What impact does adding music have? | * The impact the editing images has. * What affect do different effects have |
| Autumn 2 | * Know how to use a tablet. * Know how to turn a tablet on and off | * Purpose of a pictogram * What does simulation mean. * What is a program * Why collecting data in an organised way is useful. | * What does graphics mean * What the difference between graphics and images * How to Save, retrieve and edit their work | * Why instructions are important in computing * What debugging is | * What online tools can be used * Where to find images and text * What is formatting * What impact does formatting have. | * What a blog is. * Why people put up videos and write blogs * Know the different ways you can receive emails either devices or software. * Why emails are important | * What online tools are safe to use * What is formatting * What impact does it have. |
| Spring 1 | * Know how to turn the volume up and down on a tablet | * Know the different functions (buttons)of the recording device. | * Know where to find existing music and sound effects * How to import music | * Record sounds using a recording device * Import sounds from a sound file onto a document | * Know why some people manipulate digital images * Know a variety of different ways an image can be manipulated * Know some different software/ websites that manipulate images | * Know what a data logger is and why they are used * Know how to use a data logger * Know what a spread is and why they are used * Know how to enter simple formulae | * Know how programme and debug a sequence of commands. |
| Spring 2 | * Take photos using an app on a tablet | * Know where to obtain pictures/images/ clipart from * Know the shortcut ‘CTRL+S’ * Know the floppy disk button saves work * The difference between ‘save’ and ‘save as’. * Know that double clicking a file opens it * Know what a mouse and a trackpad is | * What programming is | * To know there are multiple ways of opening a file, either double clicking on the document or opening software and using ‘file’ ‘open’ * Understand the job of some buttons on a tool bar * To understand input, process, output | * Understand the term computational thinking * Know how to find where mistakes are and how to fix them | * Know the difference in techniques between capturing a moving or still image (tracking) * To know some tools to edit and improve a video (effects) | * Know the e-safety school rules * The difference between internet browsers and search engines * Know how to validate information and check for bias and accuracy |
| Summer 1 | * Know how to zoom in and zoom out of a picture on a tablet | * Know what a graphic is * Know what ‘text’ means * Know what buttons to press to edit a document * Know what a search engine is. | * Know how to use a search engine (keywords and phrases) * Know that work can be retrieved through the software * Know what the back and forward buttons on a browser do. * Know what a hyperlink is * Know why a hyperlink can be useful | * Know the school e-safety rules * Know why it is important to close a search engine * What a webpage is * Understand how hyperlinks work * Know how to use a mouse/trackpad | * Know how to change the alignment of text * Know how to change text spacing (which button to use) * Know how to import video and sound files | * Know the purpose of most buttons in each tab * Know ‘CRTL+X’, and scissors cuts text * Know ‘CTRL+V’ and clipboard pastes cut or copied data * Know the purpose and impact of graphics in presentations * Know what a search engine is and can give multiple examples * Know how to inset sound files into a presentation * Know how to add hyperlinks | * Know what tools are best used for data collection * Know some tools that are available to organise and analyse data |
| Summer 2 | * Knows how to access and explore apps safely | * Know why instructions are important in computing * Know the importance of precise instructions | * To know what the buttons do on a camera * Know what is needed (resources) to upload an image from a camera | * Know a way to collect data using software * Know what available software is best for producing graphs. | * Know some functions on excel * Know how to searching, sorting and graph data | * Know how to debug an algorithm * Know how to use some functions * Know what a loop is and how to apply it | * Know how to source, capture and manipulate images as part of a bigger project * Know how to apply an ‘effect’ * Know how to research using online tools * Know how to insert images and text * Know what tools can be used to edit the formatting of a report * Know what is available to them to share ICT they have done electronically |