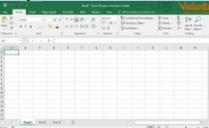


Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p>Digital painting</p>  <ul style="list-style-type: none"> • Children begin to use a painting software independently. • Children can use brush tools effectively to create a digital painting. • Children can select and use colours in a digital painting. • Children can use shapes to recreate a digital painting and fill those shapes with colour. 	<p>Computing skills</p>  <ul style="list-style-type: none"> • Children can identify examples of technology in the classroom, name the main parts of a PC device and begin to understand what each part is used for. • Children can switch on a PC device, sometimes with adult support and use a keyboard to log on to a PC device 	<p>Online safety</p>  <ul style="list-style-type: none"> • Children will be able to type their name and the date on a piece of work they have created • Children will be able to choose the correct Safe Search filter when using a search engine • Children will be able to make links between the online and offline world 	<p>Programming toys</p>  <ul style="list-style-type: none"> • Children will be able to say what an algorithm is • Children will be able to say why it is important to be precise when writing an algorithm • Children will be able to check their work for mistakes 	<p>Programming with ScratchJR</p>  <ul style="list-style-type: none"> • Children will be able to use different end blocks, including repeat forever • Children will be able to change the size of characters to grow or shrink • Children will be able to hide and show characters with a block 	<p>Word processing skills</p>  <ul style="list-style-type: none"> • Children will be able to save their work in their folder • Children will be able to edit text using backspace, delete and the arrow keys • Children will be able to format the font
Year 2	<p>Technology around us</p>  <ul style="list-style-type: none"> • Children can identify examples of technology used in different settings. • Children can describe how they use technology in their lives and explain the benefits of doing so. • Children can identify risks of going online and can begin to think of some ways to keep safe. 	<p>Online safety</p>  <ul style="list-style-type: none"> • Children will be able to explain what 'digital footprint' means • Children will be able to know how people can use the information they put online • Children will be able to know that a digital footprint contains information about a person 	<p>Digital artists</p>  <ul style="list-style-type: none"> • Children use digital painting software independently. • Children can use brush tools to create a piece of digital art in the style of pointillism. • Children can select and use a range of tools to create a piece of digital art in the style of Mondrian. 	<p>Presentation skills</p>  <ul style="list-style-type: none"> • Children will be able to create folders • Children will be able to print files • Children will be able to add images and format text 	<p>Prepare for Turtle Logo</p>  <ul style="list-style-type: none"> • Children will be able to turn accurately 90° (a quarter turn). • Children will be able to walk squares and rectangles • Children will be able to give and follow instructions. 	<p>Using the internet</p>  <ul style="list-style-type: none"> • Children will be able to identify search results that will give some useful information • Children will be able to know where to find the address of a link • Children will be able to log in and post a blog or comments

<p>Year 3</p>	<p>Online searchers and surfers</p>  <ul style="list-style-type: none"> • Children can identify what the Internet is and how it works, including how packets of data move along routes and the different connections that can be used. • Children can use a search engine to find information and implement strategies to improve results when searching online, including using keywords. 	<p>Coding with scratch: learning loops</p>  <ul style="list-style-type: none"> • Children are beginning to use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. • Children can use sequence, selection, and repetition in programs; they are introduced to variables and various forms of input and output. 	<p>Drawing and desktop publishing</p>  <ul style="list-style-type: none"> • Children will be able to order and group objects • Children will be able to move, resize and arrange text boxes and images effectively 	<p>Online safety</p>  <ul style="list-style-type: none"> • Children will be able to recognise and define cyberbullying • Children will be able to identify safe people to report cyberbullying to • Children will be able to know how cyberbullying can happen via a range of devices 	<p>Programming Turtle Logo and Scratch</p>  <ul style="list-style-type: none"> • Children will be able to draw shapes with spaces between using penup and pendown (Turtle Logo) • Children will be able to change and alter the pen settings (Scratch) 	<p>Word Processing</p>  <ul style="list-style-type: none"> • Children will be able to select single words • Children will be able to cut, copy and paste text • Children will be able to format the font
<p>Year 4</p>	<p>Communication and Collaboration</p>  <ul style="list-style-type: none"> • Children are confident in recognising different methods of online communication and can identify the positives and negatives of communicating online. • Children can identify and recognise features of email and demonstrate an 	<p>Coding with Scratch: Questions and quizzes</p>  <ul style="list-style-type: none"> • Children can understand and explain what conditional statements are, using if...then and if...then...else blocks in code. • Children can select appropriate blocks for a 	<p>Animation</p>  <ul style="list-style-type: none"> • Children will be able to describe one or more traditional methods of animation. • Children will be able to make slight changes to an image using onion skinning, understanding the term. • Children will be able to use a time slider to find a specific point in a film 	<p>Online Safety</p>  <ul style="list-style-type: none"> • Children will be able to identify comments or messages that may be hurtful to others • Children will be able to edit their own messages and comments to make sure they are kind • Children will be able to understand that search results are ranked 	<p>Programming Turtle Logo</p>  <ul style="list-style-type: none"> • Children will be able to draw shapes • Children will be able to fill shapes in different colours. • Children will be able to draw arcs of different sizes as required. 	<p>Word Processing</p>  <ul style="list-style-type: none"> • Children will be able to use some of the main keyboard shortcuts • Children will be able to suggest ways to improve a layout • Children will be able to apply specific effects to an image

	<p>understanding of spam emails and phishing.</p> <ul style="list-style-type: none"> Children will be able to send emails using the CC feature. 	<p>desired outcome, including using repeat loops, Sensing blocks and Operator blocks to create a multiplication quiz.</p>	<p>clip to insert or edit an object.</p>			
Year 5	<p>Strategic Searching Online</p>  <ul style="list-style-type: none"> Children search for information using appropriate search engines and can refine their search terms by using keywords. Children can refine their searches using Boolean operators with some guidance. Children can use strategies to check the reliability of information on web pages. 	<p>Coding with Scratch: Developing Games</p>  <ul style="list-style-type: none"> Children can design and create a simple maze game by: designing backdrops and sprites; using relevant coding blocks; programming consequences for actions completed; adding appropriate effects to enhance the game by including a backdrop and costume changes. Children understand and use conditional statements in their code, including if...then and if... then...else blocks. 	<p>Controlling Devices Flowol</p>  <ul style="list-style-type: none"> Children will be able to create a program to control a simple sequence. Children will be able to modify symbols in a flowchart for effect. Children will be able to create flowcharts for multiple inputs and outputs. 	<p>Online Safety</p>  <ul style="list-style-type: none"> Children will be able to identify comments or messages that may be hurtful to others Children will be able to edit their own messages and comments to make sure they are kind Children will be able to understand that search results are ranked 	<p>Radio Station</p>  <ul style="list-style-type: none"> Children will be able to listen to and improve on their own recordings by re-recording Children will be able to locate and download existing sound files to be imported into recording software Children will be able to combine two or more tracks to make a new, original recording 	<p>Using and applying skills</p>  <ul style="list-style-type: none"> Children will be able to use search engines safely and effectively to research ideas. Children will be able to use and combine appropriate software to draw and design room plans and other features. Children will be able to use and combine software to present information in different ways.
Year 6	<p>Know your network</p>  <ul style="list-style-type: none"> Children can describe what a computer network is and identify 	<p>Coding with Scratch: Animated Stories</p> 	<p>3D Modelling</p>  <ul style="list-style-type: none"> Children will use a range of key vocabulary to demonstrate knowledge and 	<p>Kodu Programming</p>  <ul style="list-style-type: none"> Children will be able to follow instructions given 	<p>Film Making</p>  <ul style="list-style-type: none"> Children will be able to plan additional elements 	<p>Spreadsheets</p>  <ul style="list-style-type: none"> Children will be able to enter formulae into cells.

	<p>what devices connect to a network.</p> <ul style="list-style-type: none"> • Children can identify three types of networks (LAN, MAN, WAN), explain how networks are defined and list two network topologies. • Children can list protocols and explain what they are used for and provide an example IP address. 	<ul style="list-style-type: none"> • Children can select appropriate sprites to fit within a scene and use costume changes for motion effect. • Children can use the broadcast message and receive block to structure and control the timing of events. • Children can insert the show and hide block into a algorithm and locate the correct place to make a sprite appear visible. 	<p>understanding of 3D modelling.</p> <ul style="list-style-type: none"> • Children will use a range of 3D modelling tools with growing independence. • Children will use 3D modelling software to accomplish specific goals. 	<p>in the Kodu programming environment.</p> <ul style="list-style-type: none"> • Children will be able to describe the actions of a sequence of Kodu commands. • Children will be able to use tools to change the size of the ground and raise or lower the landscape. 	<p>for film-making such as locations and props</p> <ul style="list-style-type: none"> • Children will be able to evaluate whether information is reliable or not • Children will be able to speak clearly into the camera when being recorded 	<ul style="list-style-type: none"> • Children will be able to edit data and discuss the effect on results. • Children will be able to use further functions including AVERAGE, MIN and MAX. • Children will be able to create graphs
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