


Computing Curriculum

	<i>Autumn Term</i>	<i>Spring Term</i>	<i>Summer Term</i>
Year 1	<p>Digital Literacy Online Safety - Technology in Our Lives Thinkuknow – CEOP - Jessie & friends- Episode 2</p> <ol style="list-style-type: none"> What might happen if I share a picture? <ul style="list-style-type: none"> I can seek help from an adult when something that is unexpected or worrying. <p>Repeat at the start of each half term – share the story book throughout the half term.</p> <p>Information Technology IPad Skills- Learning how the device works. Using KeyNote</p> <ol style="list-style-type: none"> I can switch on or off a device independently. <ul style="list-style-type: none"> I can launch an app or application. I can take a photo and record my voice. <p>Photo on iPad - Pictures of plants</p> <ol style="list-style-type: none"> use applications and devices in order to communicate ideas, work, messages and demonstrate control; save, retrieve and organise work <p>Information Technology Painting Linked to portraits -Learning how to use Sketches app</p> <ol style="list-style-type: none"> I can paint with different colours <ul style="list-style-type: none"> I can paint with different brushes I can create shapes. 	<p>Digital Literacy Online Safety- Twinkl lessons 1-5</p> <ol style="list-style-type: none"> I can type my name on a piece of work I have created. I can recall some of the SMART rules for internet safety. <p>Technology in Our Lives</p> <ol style="list-style-type: none"> I can tell an adult if someone online asks for personal information. I can open a web browser. I can seek help from an adult when they see something that is unexpected or worrying. <p>Information Technology Word Processing Using Pages App Producing an animal fact file.</p> <ol style="list-style-type: none"> I can type with two hands. I can use shift, space and enter correctly. I can use undo and redo. I can make text bold, italic or underline. <p>Computer Science Programming Toys -Instructions for making a sandwich/toast</p> <ol style="list-style-type: none"> I can create step by step instructions using picture. I can write and follow detailed step by step instructions. I can direct a Bee-Bot to a toy. I can program a Bee-Bot, one instruction at a time, using the arrow buttons. 	<p>Digital Literacy Online Safety Keeping Zibb Safe Online</p> <ol style="list-style-type: none"> I can type my name on a piece of work I have created. I can recall some of the SMART rules for internet safety. I understand why email is a good form of communication. <p>Technology in Our Lives</p> <ol style="list-style-type: none"> I can tell an adult if someone online asks for personal information. I can open a web browser. I can seek help from an adult when they see something that is unexpected or worrying. <p>Computer Science Programming with Scratch Jr linked to Robots</p> <ol style="list-style-type: none"> I can open the Scratch Jr app and start a new project. I can add a new character and background. I can use blocks for movement in different directions. I can create a short set of sequenced instructions.

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Year 2	<p>Digital Literacy Online Safety -Technology in Our Lives Thinkuknow – CEOP - Jessie & friends- Episode 3</p> <ol style="list-style-type: none"> How do you identify an adult you can trust? <ul style="list-style-type: none"> I can tell an adult if I think someone is being unkind to me online. I can tell you what to do if a website makes me feel uncomfortable. I can safely search for information online. <ul style="list-style-type: none"> I can choose a suitable website for my age. <p>Information Technology Presentation Skills using Keynote App</p> <ol style="list-style-type: none"> I can organise ideas for a presentation <ul style="list-style-type: none"> I can identify the main features of a presentation. I can name some of the most popular presentation applications. I can organise my presentation into main ideas. I can create a simple presentation with text. <ul style="list-style-type: none"> I can add and format an image. I can reorder slides and present a presentation. <ul style="list-style-type: none"> I can access Slide Sorter View. I can drag slides to reorder. I can use different options to present I can upload my presentation to Seesaw. 	<p>Digital literacy Online Safety- Twinkl Lessons 1-3</p> <ol style="list-style-type: none"> I can tell you what a 'digital footprint' is. I am beginning to identify the possible dangers online. I can identify unkind online behaviour online. <p>Technology in Our Lives - Using the Internet</p> <ol style="list-style-type: none"> I can search using one word. <ul style="list-style-type: none"> I can stay safe whilst using the internet. I can search the internet to find results suitable for children. <ul style="list-style-type: none"> I can search for information safely online. I can follow links to another webpage. <ul style="list-style-type: none"> I can follow links safely. <p>Computer Science Preparing for Turtle</p> <ol style="list-style-type: none"> I can give and follow an algorithm to turn right or left. I can give and follow an algorithm to make half and quarter turns. I can give and follow an algorithm using the commands right 90 and left 90. I can give, follow and complete an algorithm. I can use recognised language in an algorithm. I can create, test and debug an algorithm. 	<p>Digital Literacy Online Safety – Twinkl lessons 4-6</p> <ol style="list-style-type: none"> I can rate and review informative websites I can identify unkind online behaviour online. <p>Cyber Snakes and Ladders</p> <ol style="list-style-type: none"> I can apply my knowledge of safe and sensible online activities to different situations. <p>Information Technology Computer Art using Sketches</p> <ol style="list-style-type: none"> I can create computer art <ul style="list-style-type: none"> I can change the colour and size of dots. I can use a range of tools in a computer program to reproduce a style of art <ul style="list-style-type: none"> I can insert lines that are different sizes into my work. I can fill areas with different colours. I can draw lines and fill spaces with colour to recreate a piece of art. I can make and edit shapes to create a piece of art. <ul style="list-style-type: none"> I can produce at least 3 different shapes using a computer program. I can rotate, resize and colour shapes. I can arrange different shapes to recreate a piece of art. I can change the shade of a colour for effect. I can retrieve a file to edit in a computer program. I can retrieve a file to edit in a computer program. <p>Computer Science Turtle Logo App</p> <ol style="list-style-type: none"> I can create an algorithm to move or rotate the turtle. <ul style="list-style-type: none"> I can create an algorithm using the repeat command. <p>Scratch</p> <ol style="list-style-type: none"> I can create an algorithm that includes movement and sound. <ul style="list-style-type: none"> I can create an algorithm and use the repeat and say command. I can create an algorithm and use the green flag to start. <ul style="list-style-type: none"> I can create an algorithm and use the commands to change the backdrop and add sprites.

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Year 3	<p>Digital Literacy - Online Safety - Technology in Our Lives Thinkuknow – CEOP - Jessie & friends- Episode 3</p> <ol style="list-style-type: none"> How do you identify an adult you can trust? <ul style="list-style-type: none"> I can tell an adult if I think someone is being unkind to me online. I can tell you what to do if a website makes me feel uncomfortable. I can safely search for information online. <ul style="list-style-type: none"> I can choose a suitable website for my age. <p>Information Technology Drawing using pages</p> <ol style="list-style-type: none"> I can draw with different shapes and lines <ul style="list-style-type: none"> I can choose the appropriate shape or line to draw. I can draw the intended shape or line. I can order and group objects. <ul style="list-style-type: none"> I can change the order of objects. I can group or ungroup objects. I can manipulate shapes and lines <ul style="list-style-type: none"> I can move objects. I can change the length and direction of lines. I can change the shape and size of shapes. I can recognise an effective layout. <ul style="list-style-type: none"> I can recognise how text is used well. I can explain how images are used well. I can describe the layout of a document. <p>Digital Literacy Internet Research and Communication linked to Stone Age to Iron Age Inc Technology in Our Lives</p> <ol style="list-style-type: none"> I can tell you that word order affects the results of a web search. <ul style="list-style-type: none"> I can use different word orders when searching. I can identify which search provides the better results. I can explain how searches return results. <ul style="list-style-type: none"> I can explain some reasons why particular results are returned. I can support my explanation with examples. I can save webpages and share them safely <ul style="list-style-type: none"> I can bookmark or favourite a page. 	<p>Digital Literacy Online Safety – Communication - Technology in Our Lives.</p> <ol style="list-style-type: none"> I can name different types of online communication. <ul style="list-style-type: none"> I can name means of online communication. I can research the types of online communication used I can explain how to stay safe when communicating online. <ul style="list-style-type: none"> I can explain who will be able to read my communication. I know what to do when I receive a communication that makes me feel uncomfortable. I can tell you how I should behave online. <ul style="list-style-type: none"> I can explain why I must be kind and encouraging in my online communication. <p>Information Technology Word Processing using Pages App</p> <ol style="list-style-type: none"> I can change the case of text. <ul style="list-style-type: none"> I can use two hands for typing and keep typing at the end of a line. I can use <shift>, and <space> correctly. I can edit using <delete>, undo I can make text bold, italic and underline. I can use the shortcut bar I can use the  menu button. I can add bullets or numbers <ul style="list-style-type: none"> I can use the menu buttons for bullets and numbering. I can choose the format of bullet points. I can align text. <ul style="list-style-type: none"> I can use the menu buttons. I can align text left, centre, right or justified. I can insert and format text boxes <ul style="list-style-type: none"> I can insert a text box. I can format a text box. I can format how a text box is laid out on the page 	<p>Digital Literacy Online Safety - Twinkl lessons 1-3</p> <ol style="list-style-type: none"> I can recognise cyberbullying. <ul style="list-style-type: none"> I can identify a safe person to tell if I encounter cyberbullying. I know that cyberbullying can happen via a range of devices. I understand how websites use advertisements to promote products <ul style="list-style-type: none"> I can identify adverts online. I can identify a targeted advert. I can tell you how companies use websites to promote products. I can create strong passwords and understand privacy settings. <ul style="list-style-type: none"> I can create a strong password. I can explain why a strong password is important. I can explain what privacy settings are. <p>Presentation Skills linked to making an advert using Keynote App</p> <ol style="list-style-type: none"> I can create a simple presentation to produce an advert <p>Computer Science Programming Turtle Logo and Scratch</p> <ol style="list-style-type: none"> I can create and debug an algorithm using the move, rotate and repeat commands. <ul style="list-style-type: none"> I can write commands in the correct order. I can write a variable value where required. I can correct any mistakes. I can use the commands fd, bk, lt, rt to move or rotate the turtle. I can use cs to clear the screen. I can use the repeat command. I can create and debug algorithms using pen up and pen down. I can create and debug algorithms that draw regular polygons. I can create and debug algorithms that draw shapes <p>Tynker</p> <ol style="list-style-type: none"> I can create and debug algorithms that draw regular polygons. I can create and debug algorithms to draw patterns

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Year 4	<p>Digital Literacy - Online Safety - CEOP https://www.thinkuknow.co.uk/8_10/watch/</p> <p>Band Runner</p> <ol style="list-style-type: none"> I can recognise cyberbullying. <ul style="list-style-type: none"> I can identify a safe person to tell if I encounter cyberbullying. I know that cyberbullying can happen via a range of devices. Find the Thinkuknow 8-10s website and locate advice and support pages. I know who to share a photo with. <ul style="list-style-type: none"> I can tell a trusted adult if I feel worried. I can tell an adult if I think someone is being unkind to me online. I can create a strong password. <ul style="list-style-type: none"> I can explain why a strong password is important. I can explain what privacy settings are. <p>Information Technology</p> <p>Animation using photo and keynote App</p> <ol style="list-style-type: none"> I can describe early forms of animation before computers were used and how they have made a difference. I can create a short computer animation using one or more moving stick figures using magic move in Keynote. I can create a recorded animation involving a number of moving characters on a background. I can structure specific timing of animations using a time slider. I can use a camera to create a short stop-motion animation film. I can analyse and evaluate software <p>Computer Science</p> <p>Programming Turtle Logo App</p> <ol style="list-style-type: none"> I can create and debug an algorithm to create a procedure I can create and debug an algorithm that uses setpos to draw shapes. I can create and debug an algorithm with different colours I can create and debug an algorithm to fill areas with colour. I can create and debug an algorithm to produce text I can create and debug an algorithm to draw an arc. 	<p>Digital Literacy - Online Safety</p> <p>Twinkl lessons 1-3</p> <ol style="list-style-type: none"> I can define cyberbullying <ul style="list-style-type: none"> I can identify how a message can hurt someone's feelings. I can say how I should respond to a hurtful message online <p>Technology in Our Lives</p> <ol style="list-style-type: none"> I can access a trusted search engine. <ul style="list-style-type: none"> I can understand the different search terms give different results. I understand the term 'plagiarism' and how to avoid it. <ul style="list-style-type: none"> I can explain how to use other people's work respectfully. I can explain what a citation is. <p>Information Technology</p> <p>Word processing using Pages</p> <ol style="list-style-type: none"> I can format images for a purpose. <ul style="list-style-type: none"> I can select, edit and manipulate text in different ways. I can insert images onto a document. <ul style="list-style-type: none"> I can use formatting tools to create an effective layout. I can suggest ways to improve a layout. <ul style="list-style-type: none"> I can select, edit and manipulate text in various ways I can use the spellcheck tool <ul style="list-style-type: none"> I know some of the main keyboard shortcuts. I can insert and format a table in a word processing document. <ul style="list-style-type: none"> I can insert a simple table. I can add and delete rows and columns. I can change a page layout for a purpose. <ul style="list-style-type: none"> I can change the orientation of the page. I can create hyperlinks within a word document. <p>Green screen linked to persuasion in English.</p> <ol style="list-style-type: none"> I can turn video into an iMovie with support. I can add animation to my movie. I can add sound to my movie. 	<p>Digital Literacy - Online Safety</p> <p>Twinkl lessons 4-6</p> <ol style="list-style-type: none"> To create a safe online profile. <ul style="list-style-type: none"> I can identify the information that I shouldn't share online. I know why it is dangerous to share certain information. To explain how to be a responsible digital citizen <ul style="list-style-type: none"> I can explain what digital citizenship is. I can explain how to be a good citizen in real life and online To create an online safety superhero character <ul style="list-style-type: none"> I can design a character that represents at least one aspect of online safety. I can use what I have learnt about online safety to explain what behaviour my superhero will look for. I can apply what I have learnt to write a 'top tip' for online safety <p>Computer Science</p> <p>Scratch: Questions & Quizzes</p> <ol style="list-style-type: none"> I can compare quizzes and decompose a problem into smaller parts. <ul style="list-style-type: none"> I can write and debug a program. I can write and debug a program. <ul style="list-style-type: none"> I can use sequence and selection. I can write and debug a program which uses sequence and repetition. <ul style="list-style-type: none"> I can work with variables. I can program a variable for a sprite in Tynker. I can write and debug a program which uses a sequence. <ul style="list-style-type: none"> I can use variables to change the backdrop in a quiz. I can design, write and debug my own program by selecting appropriate visual block commands to create a sequence. <ul style="list-style-type: none"> I can design and write a program using Scratch. I can debug a program to ensure that it works.

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Year 5	<p>Digital Literacy – Online Safety – CEOP https://www.thinkuknow.co.uk/8_10/watch/</p> <p>Band Runner</p> <ol style="list-style-type: none"> I can recognise cyberbullying. <ul style="list-style-type: none"> I can identify a safe person to tell if I encounter cyberbullying. I know that cyberbullying can happen via a range of devices. Find the Thinkuknow 8-10s website and locate advice and support pages. I know who to share a photo with. <ul style="list-style-type: none"> I can tell a trusted adult if I feel worried. I can tell an adult if I think someone is being unkind to me online. I can create a strong password. <ul style="list-style-type: none"> I can explain why a strong password is important. I can explain what privacy settings are. <p>Information Technology</p> <p>Internet Research and Webpage Design</p> <ol style="list-style-type: none"> I can evaluate a webpage <ul style="list-style-type: none"> I can comment on the layout and features of web pages. I can use the advanced features of Google’s web search. I can create a new webpage <ul style="list-style-type: none"> I can create a new webpage. I can create a layout for a webpage. I can add text to a webpage and images. I can add hyperlinks into a webpage and publish. <p>Information Technology- Everyone can create Music- iPad book</p> <p>Recording a podcast using Garage Band</p> <ol style="list-style-type: none"> I can record and play my own sounds in recording software. I can combine audio effects to create an original radio jingle. I can research and plan digital content for a radio podcast. I can use software to create and present digital content for a radio podcast. I can design and record a persuasive radio advert for a product or service. I can present and evaluate audio content. 	<p>Digital Literacy - Online Safety - Twinkl lessons 1-3</p> <ol style="list-style-type: none"> I can identify a spam email. <ul style="list-style-type: none"> I can look at the sender and subject to spot a spam email. I can identify the potential dangers of spam email. I know what to do with spam email. I can take steps to avoid receiving spam. To write citations for websites I use for research <ul style="list-style-type: none"> I can explain why it is important to cite a source. I can cite a website. I can follow a citation to access an online source. I can explain the rules for creating a strong password. <ul style="list-style-type: none"> I can create a strong password using a set of rules. I can explain why having a strong password is important <p>Computer Science</p> <p>3D Modelling: Tykercad</p> <ol style="list-style-type: none"> I can draw 2D shapes or lines. <ul style="list-style-type: none"> I can draw a 2D shape or line. I can manipulate 2D shapes into 3D shapes. I can add detail to 3D drawings. <ul style="list-style-type: none"> I can use the measure tool to draw shapes. I can use inference points to draw lines and shapes. I can add detail to 3D drawings. <ul style="list-style-type: none"> I can use inference points to draw lines and shapes. I can add and manipulate 3D models. I can create a complex 3D model. I can create a 3D model of my own design. 	<p>Digital Literacy – Online Safety Twinkl lessons 4-6 Linked with Technology in our Lives</p> <ol style="list-style-type: none"> To recognise when, why and how photographs we see online may have been edited. <ul style="list-style-type: none"> I can recognise changes that have been made to an original photograph. I can digitally alter a photograph. I understand that not everything I see online is true. I can explain how false photographs can make people feel bad about themselves. To apply online safety rules to real-life scenarios. <ul style="list-style-type: none"> I can explain how to stay safe online. I can give an example of unsafe online behaviour and the possible consequences. I can explain how to apply online safety rules to a given scenario. To apply online safety rules to real-life scenarios. <ul style="list-style-type: none"> I can explain how to stay safe online. I can give an example of unsafe online behaviour and the possible consequences. I can explain how to apply online safety rules to a given scenario. <p>Computer Science</p> <p>Swift Playground – Everyone can code-iPad book</p> <ol style="list-style-type: none"> I can design and program a character game. <p>Computer Science</p> <p>Controlling Devices: Flowol</p> <ol style="list-style-type: none"> I can follow written instructions to draw a simple flowchart. I can insert symbols into a flowchart. I can add inputs into a flowchart. I can identify conventional symbols. I can understand the process of each stage.

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Year 6	<p>Online Safety https://www.thinkuknow.co.uk/11_13/ Keeping yourself fun Keeping the internet fun.</p> <ul style="list-style-type: none"> •I can say what bullying and cyberbullying are. •I can say how people should deal with cyberbullying. •I can tell an adult if I am unsure about the internet and understanding why I should. •I can identify the warning signs that a website might not be secure. •I can identify personal information. •I can explain what to do if I am asked or told something online that makes me feel uncomfortable. •I can explain some of the dangers of revealing personal information to an online friend. •I can choose an appropriate action online to stay safe. •I can identify a situation I should be careful in online. •I can understand how a stereotype can be harmful. <p>Linked to Technology in Our Lives</p> <p>Information Technology Filming Making – linked to writing a script 1.I can plan and write a script using appropriate software. 2.I can locate and check appropriate digital content, and provide accurate crediting of sources. 3.I can use an iPad to video and record and import into video editing software. 4.I can plan, conduct and import video interviews as part of a short film. 5.I can import video files to iMovie. 6.I can use iMovie to turn a film project into a finished movie and present it.</p>	<p>Digital Literacy - Online Safety Twinkl lessons 1-3 1. I can find similarities and differences between bullying and cyberbullying.</p> <ul style="list-style-type: none"> • I can identify good strategies to deal with cyberbullying. <p>2. I can identify secure websites by identifying privacy seals of approval.</p> <p>3. I understand the benefits and pitfalls of online relationships.</p> <ul style="list-style-type: none"> • I can identify information that I should never share. <p>Linked to Technology in Our Lives</p> <p>Computer Science Swift Playground – Everyone can code-iPad book</p> <ul style="list-style-type: none"> •I can open and navigate the programming environment using a keyboard or mouse. •I can add objects to a world and program them using When and Do instructions. •I can plan and design of an original virtual environment. •I can program a character to move around a track. •I can create a path for a character to follow. 	<p>Digital Literacy Online Safety Twinkl lessons 4-6 1. I can identify how the media play a powerful role in shaping ideas about girls and boys. 2. I can apply my online safety knowledge to my online activities. 3. I can use my knowledge of online safety to create a multiple choice quiz.</p> <p>Linked to Technology in Our Lives</p> <p>Information Technology Spreadsheets using Numbers App 4. I can enter data and formulae into a spreadsheet. 5. I can order and present data based on calculations. 6. I can add, edit and calculate data. 7. I can use a spreadsheet to solve problems. 8. I can plan and calculate a spending budget. 9. I can design a spreadsheet for a specific purpose.</p> <p>Computer Science Swift Playground – Everyone can code-iPad book</p> <p>Scratch- Animated stories.</p> <ul style="list-style-type: none"> •I can select appropriate characters to match a scene. •I can animate characters with movement and speech in a story scene. •I can use broadcast and receive blocks correctly in code. I can show and hide blocks correctly in code.