

Year group	Autumn	Spring-	Summer
3 Term 1	What is a password and why is it useful?	Which websites should I use for my age?	How do I report safety concerns on a website?
	How can I protect personal information online?	How long should I spend online?	Why do I ask permission for my downloads?
	Can a picture move? (iMotion or iMovie) NC Link: History – Stone Age	How can we understand an algorithm? (Scratch)	Can I edit text and layout? (Microsoft Publisher) NC Link: Any current topic
	Can I create a story-based animation? (iMotion or iMovie) NC Link: History – Stone Age	How can I code effectively? (Scratch) NC Link: Music	Can I add content? (Microsoft Publisher) NC Link: Any current topic
	Can I add music and text to an animation? (iMotion or iMovie) NC Link: History – Stone Age	How can I code effectively? (Scratch) NC Link: Music	Can I produce documents appropriate to purpose? (Microsoft Publisher) NC Link: Any current topic
		How can I extend my program? (Scratch)	
3 Term 2 & Project	How do digital devices work? (Desktop Publisher/Paint) NC Link: History/Art – prehistoric art	What is a database? (J2data)	Can I write my own algorithm? (Scratch)
	How does a digital device help us? (Desktop Publisher/Paint) NC Link: History/Art – prehistoric art	Can I create a database? (J2data)	How can I extend my program? (Scratch)
	What does our school network look like?	Can I use a database effectively? (J2data)	Can I spot a problem in my coding? (Scratch)
	Cross curricular project linking to Science - Rocks and Soils (Year 3) Project applying skills from autumn term. This will show the process of fossil formation using iMovie and use of Desktop Publisher or Paint to create a fossil using digital devices.	Cross curricular project linking to Music – Composition through Animation (Year 3) Project applying skills from spring term. Using Scratch, create an algorithm plays digital instruments and creates mood and tension with music and sounds.	Cross curricular project linking to Geography – Why is the North East so Special (Year 3) Project applying skills from summer term. Use Microsoft Publisher to create a postcard or leaflet (adapt for children's ability) to advertise the north east.

4 Term 1	How can I create a password?	What are the safety features of a website?	Can I programme a screen turtle? (turtleacademy online - Logo) NC Link – Maths – angles
	How can I protect myself online?	What happens when I post on social media sites?	Can I create and debug an algorithm? (turtleacademy online - Logo)
	Can I create an audio recording? (Audio recording app) NC Link: Science – Explaining Electricity or French – Presenting Myself	Can I use a data logger? (app – Arduino)	Can I create an algorithm with a repeating pattern? (turtleacademy online - Logo)
	Can I edit an audio recording? (Audio recording app) NC Link: Science – Explaining Electricity or French – Presenting Myself	Can I log data using a digital device? (app – Arduino)	How do I use loops to create shapes? (turtleacademy online - Logo)
	Can I combine audio? (Audio recording app) NC Link: Science – Explaining Electricity or French – Presenting Myself	Can I spot mistakes in data? (app – Arduino)	Can I create code snippets? (turtleacademy online - Logo)
		Can I analyse collected data? (app – Arduino)	
	Can I change digital images? (app/website needed) NC Link: Art – Powder Prints – changing tone and proportion of images		Can I use loops to create shapes on different software? (Scratch)
	Can I recolour and clone images? (app/website needed) NC Link: Art – Powder Prints – changing tone and proportion of images		Can I use infinite loops and counter-controlled loops? (Scratch)
4 Term 2 & project	Can I use a range of tools to edit images? (app/website needed) NC Link: Art – Powder Prints – changing tone and proportion of images	How are networks connected?	Can I animate my name? (Scratch)
		Can I believe what I read online?	Can I modify a game? (Scratch)

	<p>Cross curricular project linking to History – Ancient Greece (Year 4)</p> <p>Project using audio and image editor to retell a story about the ancient Greeks or telling parts of the history. Audio and edited images should be planned and evaluated.</p>	<p>Cross curricular project linking to Science – Sound (Year 4)</p> <p>Project using a data logger to record sound and analyse data.</p>	<p>Cross curricular project linking to DT – Craft & Design – Fabrics of Nature (Year 4)</p> <p>Project using Logo to create a program containing count-controlled loops. Children create an algorithm with a repeating pattern based on their craft designs in DT. Children can use Scratch or Logo to create a repeating pattern design.</p>
5 Term 1	Why/ how should I protect myself online?	How can I be a good digital citizen?	Why do devices need protecting?
	What happens when I post on social media?	How do I develop healthy online habits?	
	How do digital and computer systems work? NC Link: RE – Judaism – use key questions from the RE unit to search and find answers.	Can I create a paper-based database? (J2E online databases)	Which downloads can I use?
	Can I effectively search the web and select search results? NC Link: RE – Judaism – use key questions from the RE unit to search and find answers.	Can I use a database? (J2E online databases)	Can I use conditions in code? (Scratch)
	How are search results ranked and influenced? NC Link: RE – Judaism – use key questions from the RE unit to search and find answers.	Can I use charts and graphs to compare data? (J2E online databases) NC Link: Science – Forces	Can I set coding outcomes? (Scratch)
	What is multimedia? (imovie or Video technology)	Can I present data? (J2E online databases) NC Link: Science – Forces	Can I explain how selection directs the flow of a program? (Scratch)
	Can I develop shooting techniques in video? ilmovie or Video technology)		Can I design a quiz? (Scratch)
5 Term 2 & project	Can I plan, film and edit a video? (imovie or Video technology)	Can I use drawing tools? (Microsoft Word or Canva)	Can I debug and edit my algorithm? (Scratch)
		Can I make effective drawings with layers? (Microsoft Word or Canva)	Can I evaluate and improve my program? (Scratch)
		Can I create a Vector Drawing? (Microsoft Word or Canva)	
	Cross curricular project linking to RE – What are the Themes of Christmas? (Year 5)	Cross curricular project linking to Geography – Where has my food come from? (Year 5)	Cross curricular project linking to Science – Living Things and their Habitats (Year 5)

	Project applying research and video production skills. Children research and create a video on the themes of Christmas. A selection can be shown at the Christmas production.	Project that presents data showing which food is imported to England from which countries. Vector drawings created of the shape of countries and foods.	Project that creates a quiz based on their current science unit. Children must use their knowledge to write their own questions and answers.
6 Term 1	What are the issues around privacy and information security online?	Can I introduce variables into an algorithm? (Scratch)	Can I work collaboratively in a shared online workspace? (Google Workspace) – over 2 lessons
	What is 3D modelling? (tinkercad.com)	Can I explain why a variable is used in programming? (Scratch)	Can I collect and organise data? (Microsoft Excel)
	How do I modify 3D objects? (tinkercad.com)	Can I improve a game? (Scratch)	Can I format a spreadsheet? (Microsoft Excel)
	How do I manipulate digital 3D objects? (tinkercad.com)	Can I design my own game? (Scratch)	What is a formula? (Microsoft Excel)
	How do I accurately resize and move shapes? (tinkercad.com)	Can I create a design to code? (Scratch)	Can I calculate and duplicate? (Microsoft Excel)
		Can I evaluate the use of a variable in my code? (Scratch)	
6 Term 2 & Project	Can I plan my 3D model? (tinkercad.com)	What are the consequences of posting online?	Can I create a spreadsheet with formulas? (Microsoft Excel)
	Can I make my own 3D digital model? (tinkercad.com)	How can I protect myself on social media sites?	Can I present data? (Microsoft Excel)
	Cross curricular project linking to Art – Drawing – My Voice Heard Project where children create their art digitally in 3D. Children must move, resize and duplicate objects to make their digital model match part of their graffiti.	Cross curricular project linking to PE – Invasion Games Child create a sports games using some form of attacking or defending.	Cross curricular project linking to PSHCE - Enterprise Project where children plan and cost their spending, working out profit and lost and presenting this in graphs and charts.

	Digital Literacy
	Computer science (coding)
	ICT
	Project linking skills All children should have created a final cross-curricular piece showcasing their computing skills. A selection of this work should be sent to the Computing lead to be uploaded to the website or FB.