

Curriculum Concepts:

- 1. Digital Literacy
- 2. Information Technology
- 3. Computer Science

Intended Outcomes - by the end of key stage 2:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
 - select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Concepts/Areas of Learning	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
General ICT Skills	To identify what is technology	To understand that we use logins to enable us to have personal accounts	To login efficiently To navigate a	To use password shortcuts when using personal accounts	To navigate the settings menu for a device	To know what to do when a device crashes	To begin to use technology to complete projects/homework
	To know that technology		webpage	To be familiar with the App store	To know how to mirror to a display	To know how to	
	evolves over time	To be able to login	To login to familiar websites using username and	To be able to navigate a device to find the app they need	To know how to use Google	carry a device	
		To locate the internet icon	passwords	To know how to correctly store/charge a device	Classroom		
		Dance Mat Level 1	Dance Mat Level 2	Dance Mat Level 3	Dance Mat Level 4		
Digital Citizenship & E-Safety	To know what permission means	To find a balance between online and offline activities.	To know how we can be safe, responsible and respectful online.	To learn how to be good digital citizens.	To understand how digital citizens take responsibility for themselves, their communities and their world.	To know what makes a healthy media choice.	To understand what a media balance is and what it means to you.
	To identify things we can do with devices	To be able to leave a device alone, even when you do not want to.	To know what it is important to listen to your feelings when	To know why it is important that we have device-free moments. To understand what kinds of	To know how to create a strong password to help protect your privacy.	To know what information is okay to share online.	To know what clickbait is and how to avoid it.
	To know what	want to.	using technology.	information I should keep to myself when I use the internet.	To understand that what you post	To understand how	To understand how gender stereotypes



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	being safe means	To begin to understand how to safely visit places online.	To stay safe when visiting a website or app.	To know what is a digital footprint and know what type of information is okay to have as it. To understand what an online community is. To know what to do if someone is unkind to you online. How to give credit for other people's work.	online can affect your identity. To know what makes a strong online community. To know what to do when someone uses hurtful language online. To understand why people alter photos and videos.	our online activity affects the digital footprint of ourselves and others. To know how to have a positive experience when playing games online. To understand how we can be upstanders when we see cyberbullying. To know your rights and responsibilities as a creator.	shape our online experiences. To know how to keep an online friendship safe. To know what cyberbullying is and what you can do to stop it. To know what are the important parts of an online news article.
Word Processing & Data	To know that we can use devices to write	To type a simple caption or sentence.	To know how to open and save work.	To know how to inset 'Word Art'/text effects to create titles.	To know how to insert a table, add and delete rows and columns.	To know how to use the snipping tool.	To know how to change layouts of tables.
	To know what type/typing means	To understand we can save our work and return to it later.	To understand that work will automatically save when working on	To know how to insert bullet points/numbered lists.	To know how to add a page border.	To know the keyboard shortcuts for undo/redo.	To know how to change the headings.
	To identify	To understand we can change parts of our	cloud-based documents (Google Docs).	To know how to insert a picture onto a document (from either the internet or your files).	To know how to insert a text box.	To know how to align text.	To know how to use find and replace.



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	letters on a keyboard	document to interest the writer. To use undo/redo arrows.	To be able to change font style, size and colour. To use spell checker. To be able to use the tools underline and bold. To be able to delete, insert and replace specific text.	To be able to cut, copy and paste text/images (using mouse and keyboard shortcuts). To know how to send images back and forward. To know how to group images together. Slides To know how to change the background To know how to insert bullet points/numbered lists. To know how to add, delete and move slides. Data To produce different graphs using	To know how to change the page orientation. Slides To know how to add transitions/animations. Data To produce appropriate graphs which helps analyze data.	To be able to use word processing skills on another platform (website building). Slides To know how to add hyperlinks. To know how to add sound and video. Data To use excel to produce a graph.	To know how to add symbols and equations. Data To use excel to help solve simple equations (four operations) To use excel to find the average.
Programming	To know that we can ask a device to do something	To create clear verbal instructions for other people to follow (an	To begin to use repeat/loop functions to	To consider how repeat/loops can be usedto create more efficient code	To understand a wider range of conditionals <i>if, else, until</i>	To create my own function blocks	To create a range of variables



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	and it will do it	algorithm)	make the same		To write code in scratch for		To create a counter
	To know that programming is giving a set of instructions	To orally revise simple instructions when things do not go right To know how to use icons/blocks (arrows and turns) To know that an algorithm is a set of instructions Use trial and error to try to solve problems with algorithms	thing happen more thanonce To create algorithms using block coding (arrows, turns, repeats + blue blocks in scratch) To identify what the error is in a pre-prepared script by working through instructions systematically To make predictions about what will happen when block code is started	To begin to understand the conditional, if To create my own character & background in scratch To program given code to broadcast between sprites To begin to spot errors in script and start to debug them with some independence To predict what will happen with given code To check code and begin to use trial andimprove to identify and solve errors	a range of inputs To apply broadcasting between sprites to add sounds To plan their own educational game To add a second level to a game To explore and create simple digital music To check each step of code to identify errors.	To create a simulation/on-screen prototype that incorporates sensors (using conditionals) To create a range of geometric art using selected shapes Begin to work more systematically when identifying errors in code before correcting them	using for To create may own game incorporating random appearances and movements To create digital music to go with this game To systematically work through code toidentify errors and correct them
Digital Media, Communication &Collaboration	To identify jobs that use technology	Paint To change the background To select and resize and image	Animation To understand what stop animation is To choose a background	Blog writing To understand what a blog is To be able to use word processing skills to write a blog post	Music editing To know that music can be edited/adapted using technology To make adjustments to pitch/volume/rhythm	Podcast To know what a podcast is To identify the key features of a	Film trailer To know what the purpose of a trailer is To identify the features of a movie trailer



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	To add an image to a background	To add an image	To know how to share a blog post	To edit a piece of music and justify your reasons for the	podcast	To use a device to record film
	To select and resize/change colour of a paintbrush To paint using freehand	To understand what a frame is To create additional frames to show movement To copy and delete frames	To know how to comment on a blog post To know what is/isn't appropriate to blog/comment	edit	To know the benefits of a podcast To upload music to a device To add sound effects	To edit the film using software To publish the film to the wider world
					To create, edit and publish a podcast	