**Computing Curriculum Progression – KS1**

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| **CYCLE A** | LCC Question | **How could you be the next Simone Biles?****(SCIENCE)** | **Which birds and plants would Little Red Riding Hood find in our park?****(SCIENCE)** | **Why can’t a Meerkat live in the North Pole?****(GEOGRAPHY)** |
| Knowledge | **Hardware/Software:** WORD, PAGES GOOGLE DOCS PIC COLLAGE, BOOK CREATOR (word processing) PIC COLLAGE, BALLOON STICKIES +, THINGLINK (presentations)**Use technology purposefully- Word processing/presentations*** use technology purposefully to create, organise, store, manipulate and retrieve digital content;
* recognise common uses of information technology beyond school
 | **Hardware/Software: INTERNET****E-safety*** use technology safely and respectfully, keeping personal information private.
* understand the different methods of communication (e.g. email, online forums etc).
* know you should only open email from a known source.
* know the difference between email and communication systems such as blogs and wikis.
* know that websites sometimes include pop-ups that take them away from the main site.
* know that bookmarking is a way to find safe sites again quickly.
* begin to evaluate websites and know that everything on the internet is not true.
* know that it is not always possible to copy some text and pictures from the internet.
* know that personal information should not be shared online.
* know they must tell a trusted adult immediately if anyone tries to meet them via the internet.
* identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.
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| Skills | **Use technology purposefully - Word processing/typing*** I can confidently type words quickly and correctly on a digital device.
* I can use the space bar to make space and delete to delete letters/words.
* I can make a new line using enter/return.
* I can dictate into a digital device more accurately and with punctuation.

**Use technology purposefully - Presentations, web design and eBook Creation** * I can add voice labels to an image
* I can add a voice recording to a storyboard.
* I can add speech bubbles to an image to show what a character thinks.
* I can import images to a project from the web and camera roll.
 | **E-Safety: Self-Image and Identity*** I can explain how other people’s identity online can be different to their identity in real life.
* I can describe ways in which people might make themselves look different online.
* I can give examples of issues online that might make me feel sad, worried, uncomfortable or frightened; I can give examples of how I might get help.

**E-Safety: Online Relationships*** I can use the internet to communicate with people I don’t know well (e.g. • email a penpal in another school/ country).
* I can give examples of how I might use technology to communicate with others I don’t know well.

**E-Safety: Online Reputation*** I can explain how information put online about me can last for a long time.
* I know who to talk to if I think someone has made a mistake about putting something online.

**E-Safety: Online Bullying*** I can give examples of bullying behaviour and how it could look online.
* I understand how bullying can make someone feel.
* I can talk about how someone can/would get help about being bullied online or offline.

**E-Safety: Managing Online Information** * I can use keywords in search engines.
* I can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections).
* I can explain what voice activated searching is and how it might be used (e.g.Alexa, Google Now, Siri).
* I can explain the difference between things that are imaginary, ‘made up’ or ‘make believe’ and things that are ‘true’ or ‘real’.
* I can explain why some information I find online may not be true.
 | **E-Safety: Health, Well-being and Lifestyle*** I can explain simple guidance for using technology in different environments and settings.
* I can say how those rules/guides can help me.
* Privacy and Security
* I can describe why other people’s work belongs to them.
* I can recognise that content on the internet may belong to other people.

**E-Safety: Copyright and Ownership*** I can describe why other people’s work belongs to them.
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|  | **Why do we love to be beside the seaside?****(GEOGRAPHY)** | **Why were Christopher Columbus and Neil Armstrong brave people?****(HISTORY)** | **Who were the Wright Brothers?****(HISTORY)** |
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* create and debug simple programs.
* use logical reasoning to predict the behaviour of simple programs.
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| Skills | **Computer Science*** I can write algorithms for everyday tasks.
* I can use logical reasoning to predict the outcome of algorithms.
* I understand decomposition is breaking objects/processes down.
* I can implement simple algorithms on digital devices (Bee Bots, Apps)
* I can debug algorithms.
* I understand programs execute by following precise and unambiguous
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* I can create programs on a variety of digital devices
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| **CYCLE B** | LCC Question | **What would an alien think about Earth?****(SCIENCE)** | **Why are humans not like tigers?****(SCIENCE)** | **What would \_\_\_\_\_\_ find exciting about our town/city?****(GEOGRAPHY)** |
| Knowledge | **Hardware/Software:** PIC COLLAGE, PLICKERS GOOGLE SHEETS, GOOGLE FORMS, EXCEL, NUMBERS (Data Handling); PUPPETPALS, CHATTERPIX KIDS, I CAN ANIMATE (Animation); SEESAW, VOICE MEMOS, GARAGEBAND, ANCHOR, KEEZY (Sound) **Use technology purposefully - Data handling/animation/sound*** use technology purposefully to create, organise, store, manipulate and retrieve digital content;
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| Skills | **Use technology purposefully - Data Handling*** I can sort digital objects into a range of charts such as Venn diagrams, Carroll diagrams and bar charts using different apps and software.
* I can orally record myself explaining what the data shows me.
* I can create a branching database using questions
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**Use technology purposefully - Animation** * I can create multiple animations of an image and edit these together.
* I can create a simple stop motion animation.
* I can explain how an animation/flip book works.

**Use technology purposefully - Sound*** I can create a musical composition using software.
* I can record my own sound effects.
* I can record my voice over a compositions to perform a song.
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| LCC Question | **Where do and did the wheels on the bus go?** **(GEOGRAPHY)** | **Who was to blame for the Great Fire of London?** **(HISTORY)** | **What would our grandparents have played with?** **(HISTORY)** |
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**Use technology purposefully - video creation/photography/augmented reality** * use technology purposefully to create, organise, store, manipulate and retrieve digital content;
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**Use technology purposefully: Video Creation*** I can write and record a script using a teleprompter tool.
* I can use tools to add effects to a video
* I can begin to use green screen techniques with support

**Use technology purposefully - Photography and Digital Art** * I can edit a photo (crop, filters, mark up etc)
* I can select and use tools to create digital imagery - controlling the pen and using the fill tool
* I can cut images with accuracy to layer on other images.

**Use technology purposefully - Augmented Reality and Virtual Reality*** I can draw my own 360 image and explore it in VR.
* I can bring objects into my surroundings using Augmented Reality.
* I can create my own QR code.
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