

Autumn	Spring	Summer	
e-Safety- planned within PSHE / Citizenship using Somerset BYTE Awards I am kind and responsible Agree class internet rules based on personal responsibilities. Include cyberbullying messages in Anti-bullying week.	e-Safety- planned within PSHE / Citizenship using Somerset BYTE Awards I am safe Keep personal details private, consider who you are talking to online and make sure a trusted adult knows what you are doing online. Use Safer Internet Day to focus on use of the internet and different technologies.	e-Safety – planned within PSHE / Citizenship using Somerset BYTE Awards I am healthy Consider age-appropriate and healthy use of technology. Include consideration of time spent using technology and recognition of appropriate websites and games in Health week.	 Basic Skills (to support my learning across the curriculum) • Use a secure personal log in for a variety of online resources • Combine appropriate apps through the use of the camera roll on a tablet • Combine software to achieve effective outcomes. • Work collaboratively on documents and presentations • Create hyperlinks within and between documents • Identify three online sources to check information • Use keyboard to confidently input text, characters and numbers • Use bullet points • Add text boxes • Move, resize and rotate shapes, text and pictures • Use common keyboard shortcuts on laptops and PCs Additional unplugged activities to reinforce computational thinking <u>2D Shape Drawing</u> (40 minutes) • Follow an algorithm to draw pictures constructed from 2D shapes. • The algorithms they follow will include errors and children will use logical reasoning to detect and correct these. Sign up free to Barefoot Computing. <u>Robotic Paper Cups</u> (50 minutes) • Children split into groups • ‘Robot’ from each group set a different task outside classroom • Groups create algorithm and program for cup stack • ‘Robot’ is programmed to build stack
TIOL 2 – CHOICE Year 5 Exploring My World 2 sessions • Explore the world using Google Earth and look at the layers of information contained in the tool • Create and record a virtual tour from their home to school and another destination • Create a presentation about their dream destination Handling Data 1 – CORE Year 5 Discovering My Solar System 4 sessions • Collect, record and analyse data about planets using 2Investigate • Interrogate each other's databases • Compare with online database Multimedia 1 – CORE Year 5 Presenting My Persuasion 5 sessions • Consider keyboard and editing skills • Collect ideas on collaboration tool • Create strategy document and slide presentation as part of advertising campaign • Rehearse and present presentation providing feedback for friends	Handling Data 2 – CHOICE Year 5 Measuring Rainfall and My Water Usage 3 sessions • Explore data to conserve water • Learn about computer modelling • Produce chart to show rainfall and interpret graph about animals Programming 3 – CHOICE Year 5 My Scratch Merry Go Round 4 sessions • Use a motor to make a duck turn • Add sound to a program • Use Scratch to model what happens when a duck sees a cat • Use tilt sensor and variable TIOL 1 - CORE Year 5 Improve My Web Detective Skills 3 sessions • Consider the difference between the Internet and the World Wide Web and how they are linked • Discuss how information online may not be accurate or reliable • Create a checklist to ensure that the information they are using is accurate	Programming 1 - CORE Year 5 Scratch My Roman Numerals 5 sessions • Review knowledge of Scratch • Use Scratch to help count in number sequences • Create a program that counts in number sequences • Record voices to add to Scratch counting program • Create a program to count in Roman numerals • Combine counting programs Multimedia 3 – CHOICE Year 5 My Sound, My Mood 2 sessions • Discuss how music affects our impression of a video clip and the way we feel • Create a piece of music to accompany fictional writing and add atmosphere • Find sound effects to add to a piece of writing • Record story and combine narration with sound Handling Data 3 – CHOICE Year 5 Changing My Materials 3 sessions • Use datalogger to investigate ice melting and tea cooling • Use online database to think of differences in these processes around the world Open Ended Challenge <u>Identify an appropriate challenge</u> to allow children to • Use computational thinking to plan, develop and evaluate their use of technology • Have a differentiated learning experience including developing mastery • Demonstrate attainment in computing	