

Autumn	Spring	Summer	
<p>TIOL 1 - CORE</p> <p>Year 5 Improve My Web Detective Skills</p> <p>3 sessions</p> <ul style="list-style-type: none"> • 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 	<p>Programming 2 – CHOICE</p> <p>Year 5 Logo My Shapes</p> <p>5 sessions</p> <ul style="list-style-type: none"> • Create a program to teach the computer to draw a range of regular polygons • Refine programs using procedures to make them more efficient • Use procedures to create patterns of repeating regular polygons 	<p>Programming 3 – CHOICE</p> <p>Year 5 My Scratch Merry Go Round</p> <p>4 sessions</p> <ul style="list-style-type: none"> • 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 	<p>Basic Skills (to support my learning across the curriculum)</p> <ul style="list-style-type: none"> • 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
<p>Programming 1 - CORE</p> <p>Year 5 Scratch My Roman Numerals 4 sessions</p> <ul style="list-style-type: none"> • Review knowledge of Scratch • Use Scratch to help count in number sequences • Create a program that counts in number sequences and one to count with Roman Numerals • Record voices to add to Scratch counting program • Create animated story 	<p>Multimedia 2 – CHOICE</p> <p>Year 5 My Weather Forecast</p> <p>3 sessions</p> <ul style="list-style-type: none"> • Look at TV weather forecasts • Use data from weather websites to make prediction • Write a script for a weather forecast • Film using Greenscreen software/app • Record weather forecast as a sound file for podcasting 		
<p>e-Safety- planned within PSHE / Citizenship using Somerset BYTE Awards</p> <p>I am kind and responsible</p> <p>Agree class internet rules based on personal responsibilities. Include cyberbullying messages in Anti-bullying week.</p>	<p>e-Safety- planned within PSHE / Citizenship using Somerset BYTE Awards</p> <p>I am safe</p> <p>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.</p>	<p>e-Safety – planned within PSHE / Citizenship using Somerset BYTE Awards</p> <p>I am healthy</p> <p>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.</p>	<p>Additional unplugged activities to reinforce computational thinking</p> <p><u>2D Shape Drawing</u> (40 minutes)</p> <ul style="list-style-type: none"> • 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. <p>Sign up free to Barefoot Computing.</p> <p><u>Robotic Paper Cups</u> (50 minutes)</p> <ul style="list-style-type: none"> • 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
<p>Multimedia 1 – CORE</p> <p>Year 5 Presenting My Persuasion</p> <p>5 sessions</p> <ul style="list-style-type: none"> • Consider what makes a presentation interesting • Design a presentation to persuade an audience about a particular viewpoint or argument • Compare two presentation tools • Make a presentation on a topic to support learning. 	<p>Handling Data 1 – CORE</p> <p>Year 5 Discovering My Solar System</p> <p>4 sessions</p> <ul style="list-style-type: none"> • Collect, record and analyse data about planets using 2Investigate • Interrogate each other's databases • Compare with online database 	<p>Handling Data 3 – CHOICE</p> <p>Year 5 Changing My Materials</p> <p>3 sessions</p> <ul style="list-style-type: none"> • 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

[Identify an appropriate challenge](#) 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