

| Yr 5 | Autumn 1   | Autumn 2  | Spring  | Summer 1  | Summer 2   |
|------|--|---|---|---|--|
|      | <b>Theme</b><br>Science – forces<br>History – Mayan Civilisation   | <b>Theme</b><br>Science – properties of materials<br>Geography – Brazil - Rainforests   | <b>Theme</b><br>Science – Earth & Space<br>Geography – USA – Visit to Jodrell Bank  | <b>Theme</b><br>Science – Life Cycles<br>History – Anglo Saxons   | <b>Theme</b><br>Science – Changes<br>History – World War 2   |
|      | <b>Computer science</b><br><b>Computational thinking – thinking for myself.</b><br>Set problem solving tasks for children where they are expected to write procedures to achieve outcomes.<br><b>Programming using selection and repetition</b><br><b>CargoBot app</b><br>Use this app to develop problem solving skills<br>Use loops and conditions to refine algorithms<br><br><b>Flowcharts – inputs and outputs</b><br><b>Flowol</b> software - understand that a computer can be programmed to make outputs react to what sensors detect.<br><br>Use <b>Scratch online</b> to use sound sensors and to link | <b>Computer science</b><br><b>Programming using repetition</b><br>LOGO<br>Understand that procedures are used within procedures in logo programs to achieve specific outcomes such as a flower pattern.<br>Create a selection of procedures.<br><br><b>Programming using sequence, selection and repetition</b><br>Hour of code – <a href="http://studio.code.org/s/fozen/stage/1/puzzle/8">http://studio.code.org/s/fozen/stage/1/puzzle/8</a> | <b>Digital Literacy - E-safety</b><br>Keeping safe online and how to protect personal information.<br>The importance of creating secure passwords and not revealing personal information.<br>Consider the reliability of information on the internet e.g. the difference between fact and opinion<br>Communicating safely online – email, blogging, messaging, text.<br>Cyberbullying<br>Understand the importance of managing time spent online. | <b>Computer science</b><br><b>Programming using variables</b><br><b>Block coding using Scratch</b><br>Use variables to increase programming possibilities. For example, keeping track of a player's score.<br><b>Activities:</b><br>Create a mobile maze game with the controls on screen and a scoring system.<br>Create more games for example a pong game or a driving game. | <b>Computer science</b><br><b>Computer networks</b><br><b>Transfer of data over the Internet</b><br>Can explain how information is shared over the internet.<br><br>Make a poster or infographic to explain how data is transferred on the internet.<br><br><b>Search engines</b><br>Understand and explain how search engine results are selected and ranked.<br>Use advanced search techniques to refine searches.<br>Resource BBC schools <a href="http://www.bbc.co.uk/guides/ztbjq6f">http://www.bbc.co.uk/guides/ztbjq6f</a> |

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|  | <p>to a webcam to develop further use of inputs and outputs.</p>  |  |  |  |   |
|  | <p><b>Information Technology</b><br/> <b>Using the internet for research</b><br/>                 Web research about Mayans.<br/>                 Use advanced search skills such as 'and' 'or' 'not'</p> <p><b>Collaboration using a class wiki</b><br/>                 Create a class wiki on the School VLE – children to contribute information about the Mayans.</p> <p><b>Podcasts</b><br/>                 Audio instruction / sound recording using easi speak microphone, Voice Record pro app.<br/>                 Create a podcast on aspects of Mayan Life.</p> | <p><b>Information Technology</b><br/>                 Using online maps (Google maps and Google earth) to study Rainforest area</p> <p><b>Keyboard skills</b><br/>                 Use spell checker. Use Find and replace option. Discuss keyboard shortcuts e.g. <b>Ctrl+C, Ctrl+V, Ctrl+X</b></p> <p><b>Text activity</b> – write newspaper reports using appropriate software or apps – Link to CSI theme</p> <p><b>Presentations</b><br/>                 Create simple presentations using software, online applications such as Prezi or apps</p> | <p><b>Information Technology</b><br/> <b>Multimedia presentation</b><br/>                 Create a digital presentation using photographs, video or screen casting apps<br/>                 Photo story<br/>                 iMovie<br/>                 iMovie trailer app<br/>                 iMovie app<br/>                 Shadow puppets edu app<br/>                 Link to Earth and Space theme.</p> | <p><b>Information Technology</b><br/> <b>Data - spreadsheets</b><br/>                 Introduction to spreadsheets and manipulating the data.</p> <p><b>Presentations</b><br/> <b>Create a poster</b><br/>                 Use Dazzle, Poster Forge, Word, PicCollage app<br/>                 Link to Life cycle theme.</p> | <p><b>Information Technology</b><br/> <b>HTML coding to create a web page</b><br/>                 Use Mozilla Webmaker site to learn about web page creation.<br/>                 Use <b>X-ray goggles</b> to view the source code of a web page to access the HTML script.<br/> <a href="https://webmaker.org/en-US/tools">https://webmaker.org/en-US/tools</a><br/>                 BBC schools what makes a good web page<br/> <a href="http://www.bbc.co.uk/guides/zgx3b9q">http://www.bbc.co.uk/guides/zgx3b9q</a></p> <p><b>Digital images</b><br/>                 Use tools and effects in art or graphic programs to create unique designs. Dazzle. Irfanview, ipiccy.<br/> <a href="http://ipiccy.com/">http://ipiccy.com/</a></p> <p><b>Internet research</b><br/>                 Link to History theme</p> |