**St Charles RC Primary School**

**Computing Curriculum Map**

**2022-2023**

| **Term** | **Nursery** | **Reception** | **Year 1** | **Year 2**  **Including 1/2** | **Year 3** | **Year 4** | **Year 5** | **Year 6**  **Including 5/6** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Autumn** | Children play with a range of battery operated and cause and effect toys. | Children have the language skills to give simple single instructions    Children use simple programmes on the IWB (eg busy things) with support | **Safety Rules and Basic Skills**      **Digital Literacy**  ESafety  3BM-Smartie the Penguin  **Digital Literacy**  Sharing work online  3BM- Sharing my iceburg work  **Computer Science**  Understanding what an algorithm is - using instructions  3BM- What’s an algorithm? | **Safety Rules and Basic Skills**  **Digital Literacy**  ESafety  3BM- Digiducks dilemma  Finding information safely from websites  3BM-Finding out about  **Computer Science**  Creating and fixing simple programs  3BM-I can debug | **Safety Rules**  **Digital Literacy**  ESafety  3BM-Internet Scenario Card  **Computer Science**  Block Coding  3BM-I can use block coding  Journey of an email  3BM-Journey of an email | **Safety Rules**  **Information Technology**  Be discerning when finding online information  3BM-My exciting world landmarks  **Digital Literacy**  ESafety  3BM-Internet Scenario Card  **Computer Science**  Programming  3BM-Dancing with scratch | **Safety Rules**  **Information Technology**  Using technology to create a poster  3BM- Design a Poster about Charles Babbage  **Computer Science**  Programming  3BM-Game creation with Scratch | **Safety Rules**  **Computer Science**  Programming-solving problems  3BM-Have fun with scratch  Understanding networks and how search engines work  3BM-Searching Searching  **Digital Literacy**  ESafety  3BM-Internet Scenario Card- |
| **Spring** | Children listen to instructions.  Children can follow simple two step instructions.  Children are able to use a simple paint programme on the IWB with support. | Children are able to follow simple process based instructions including those that involve Positional language  Children are starting to understand that they can find information using computers. | **Computer Science**  Programming Devices  3BM-Giving instructions-making toast    **Information technology**  Creating an avatar and an image  3BM-design a plate  3BM -design a face  Using technology to sort objects into groups and for graphing  3BM- I can sort objects | **Information Technology**    Blogging  3BM-Do you like my blog?  Creating digital work  3BM-Say no to graffiti  Creating animations  3BM-How does that grow? | **Information Technology**  Databases  3BM-Finding out about me  **Computer Science**  Algorithms  3BM-Can your robot make shapes?  **Digital Literacy**  Use technology safely, respectfully and responsibly  3BM-Would I lie to you? | **Information Technology**  Spreadsheets  3BM-What’s a spreadsheet  **Digital Literacy**  Blogging  3BM-Here’s my presentation | **Information Technology**  Blogging  3BM Can you finish my story  Spreadsheets  3BM-Simply Delicious Spread Sheets | **Information Technology**  Designing and combining in 3D  3BM-Let’s design and combine in 3D  **Digital Literacy**  Exploring the reliability of online information  3BM-How can we trust the internet?  **Computer Science**  Understanding computer terminology  3BM-Words Words Words  Identifying logic and syntax errors in code/algorithms  3BM-What’s wrong here? |
| **Summer** | Children are able to follow simple process based instructions including those that involve Positional language  Children are able to take turns on the IWB with support. | Children have the language skills to give simple instructions  Children use a mouse to create a picture on an art programme.  Children use Ipad and other cameras to take pictures | **Computer Science**  Coding  3BM-I can code  **Digital Literacy**  To safety find out information from an online game  3BM-How does my garden grow?  **Information technology**  Use technology purposefully to create, organise, store, manipulate and retrieve digital content  3BM- Let’s write with words | **Information Technology**  Sorting, classifying & asking questions  3BM-Mini beasties  **Computer Science**  Algorithms  3BM-How does that work? | **Information Technology**  Using QR codes  3BM- Would you like to read this?  **Computer Science**  Understanding some computing vocabulary and terminology  3BM-Words Words Words  Giving instructions for simple programming  3BM-Exploring how things work | **Computer Science**  Understanding how search engines work  3BM-Searching the web  Exploring computer terminology  3BM-Words Words Words  **Digital Literacy**  Esafety  3BM-Play like share  **Information Technology**  Developing photo manipulation techniques  3BM-Creating an alien landscape | **Digital Literacy**  ESafety  3BM-Internet Scenario Card  Exploring the reliability of online information  3BM-Stop! Check!  **Computer Science**  Explaining the Internet and World Wide Web  3BM-What is the Internet? | **Digital Literacy**  Blogging  3BM-3BM Do you agree?  **Information Technology**  Spreadsheets  3BM-Party time Spreadsheets |