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| **Computing**  Technology enables us to code, create and connect. | | | |
| **Elements of computing** | | | |
| **Coding** | **Create and Communicate.** | **E-Safety** | **Computing Systems and Networks** |
|  | | | |
| **Skills** | | | |
| **Computational Thinking Skills:**  Logical Reasoning  Pattern Spotting  Decomposition  Debugging  Evaluating  Tinkering  **Coding Skills:**  Sequencing  Iteration  Event Handling  Conditional Statements  Variables | Saving and Retrieving  Typing, Touch Gestures and Mouse Skills  Research  Image  3D design  Video  Sound  Data Handling  Presenting Information  Evaluating Digital Work | Privacy and Security  Online Bullying, Relationships and Well-Being  Digital Footprint and Reputation  Creative Credit, Copyright and Quality | Technology around us.  IT around us  Connecting Computers  The internet  Systems and searching  Communication and collaboration |
| 2 half terms a year | 4 half terms a year | Ongoing – one session each half term. | Ongoing – one session each half term. |
|  | | | |
| **Knowledge and Understanding** | | | |
| **Substantive Computing Knowledge (The apps, software, hardware, systems, services, networks used\_** | | **Topic Specific Vocabulary (The language and terminology for each Element of Computing)** | |
| **Computational Thinking**  Children show understanding of computational thinking and coding concepts when they get to tinker with programming software and robotics. Pupils have time to apply what they have learned in opened exploration. | **Presenting and Evaluating**  Children show understanding of their communication and creation skills by using word processing, presentation tools and data handling software to communicate their ideas with a real audience. They evaluate how effective their communication has been with their audience. | **Evaluating and Making Choices**  Children show understanding of online safety when they come together to discuss ways to solve problems that may arise in their personal lives. Online Safety is taught in the first lesson of half term but also through other subject areas, such as PSHE | **Understanding digital devices**  Children show an understanding of how digital devices and networks work. They will know the different components of a computer Computing systems is taught in the last lesson of half term. |