

**Plan Of Learning For The Year (Unit/Topic/Project Context)**

**Half Term 1**

- Unit 1 – Parts of a computer

**Half Term 2**

- Unit 1 – Parts of a computer continued
- Introduction to programming in Python

**Half Term 3**

- Unit 2 – Data representation (binary etc.)

**Half Term 4**

- Unit 2 – Data representation (binary etc.)
- Further programming in Python

**Half Term 5**

- Unit 3 – Networks and security

**Half Term 6**

- Unit 3 – Networks and security (binary etc.)
- Further programming in Python

**Feedback, Retrieval & Assessment**

- Self and peer assessment
- End of unit marked assessments
- Verbal Q and A in lesson
- Online quizzes

**Super curriculum opportunities / extra-curricular activities**

- Opportunity to look inside a computer in half term 1.
- Advanced cyber security information and techniques in half term 5 and 6

**Cultural Capital, SMSC, Careers and Futures**

- References to cyber careers in half term 5
- Opportunity to take part in different coding challenges.

**Common misconceptions**

- Information about what the different components in a computer do in half term 1. This helps pupils understand how to upgrade a computer and why some upgrades are better than others.

**Connecting New Knowledge**

- The order of units is based on the exam boards recommendation.
- Pupils will have learned some content in Year 7 and Year 8 to support the GCSE computing course. This includes topics on programming and hardware/software.

**Challenge for all**

- Coding challenges such as the Codementum Challenge and Bebras Coding Challenge throughout the year.