Computing (Year 9)

Term 1

- Assessment of Python programming- knowledge and understanding
- Further developing Python Programming
- Assessment of Data Modelling – knowledge and understanding
- Developing more Complex Data Models
- Rules of the Computer room

Key concepts: Recap basic programming concepts (S,S,I); Count and condition controlled loops; Defining and calling functions and procedures.

Key concepts: Develop Digital literacy skills; Formatting skills; Export licences and legal issues; Create their own blog.

Xmas

Term 2

- January assessment window
- Data Representation
- Assessment of Data Representation – knowledge and understanding
- Introduction to Networks
- Assessment of Networks – knowledge and understanding.

Key concepts: Using digital media; understanding binary concepts of media files; real life situations; file compression; manipulating media files.

Key concepts: Recap basic formula and functions; Conditional formatting ; Data validation; Using Goal seek; Use of appropriate charts; adding Macros.

Easter

Term 3

- Assessment of MWP – knowledge and understanding.
- Summer assessment window
- Modern Working Practices
- Using Media to promote a Cause
- Assessment of Using Media – skills, knowledge and understanding

Key concepts: Impact of IT on the working environment; Collaboration and Communication tools; Remote working; Accessibility and Inclusivity; Social, moral and ethical impact.

Key concepts: The internet; LAN and WAN; IP addressing and URLs; Packet switching; Network topologies; Client – Server networks and Cloud Computing; Encryption and Data security.

Summer