Computing (Year 7)

Term 1

- Programming Assessment – skills, knowledge and understanding
- Introduction to programming concepts I
- Assessment of UCSER knowledge & understanding
- Using Computers Safely Effectively & Responsibly
- Rules of the Computer room

Key concepts: Algorithms, Decomposition, introduction of basic programming concepts – strings, variables, data types and structures, sequence, selection and iteration.

Key concepts: Sensible use of, Risks and dangers of social media, Security of personal data and safe gaming.

Xmas

Term 2

- Understanding computers
- Assessment of Understanding Computers – knowledge and understanding.
- Understanding Graphics and Using Graphics editing software
- Graphics assessment – skills, knowledge and understanding

Key concepts: Input, output and storage devices; Fetch, decode, execute cycle;Optical storage and future developments; Binary to Denary conversions.

Key concepts: Vector and Bitmap graphics properties; how computers store graphics; Editing and creating graphics.

Easter

Term 3

- Assessment Portfolio of Sound Editing
- Sound Editing and Digital Audio
- Micro:bit assessment – knowledge and understanding
- Developing physical programming with a Micro:bit.

Key concepts: Properties of analogue and digital sound; how computers store sound files; file compression; Editing and creating digital sound files.

Key concepts: Recap programming concepts from Autumn unit; using programming concepts; physical computing – using inputs and outputs.

Summer