

Subject
Computer Science and ICT

Year and Term
Year 8 – Autumn Term 1

Time of Assessment
W/B: 14th October 2024

Knowledge to be Assessed:

- How the processor is made up of a logic gate.
- Storage units of measurement
- Binary Number System
- Converting decimal numbers to binary
- Converting binary numbers to decimal
- ASCII
- Bitmap Image and how they are stored
- Colour Depth and Resolution



Skills to be assessed:

Students will be assessed on binary number system, converting from decimal numbers to binary, and back again. Storage units of measurement, the ASCII method of encoding text, and how images are stored.

Resources to help Revision:

- Knowledge Organiser placed on Teams
- BBC Bitesize

Grade Descriptors: How the assessment is graded?

Emerging	Developing	Secure	Mastering	Extending
Students understand computers store and process data.	Students understand computers process data in binary but cannot convert number independently	Student can convert binary to denary with structures and understand the concept of base 2. Students can create black and white graphics using binary code.	Students can explain the difference between base 2 and base 10, and carry out binary to ASCII conversions unstructured.	Students can fully explain how images, text, and numbers are processed by computers, including colour depth.