

The Castle @ Theale
ICT/Computing Curriculum



ICT is a fundamental aspect of modern life, underpinning our work, communication, entertainment, understanding of the world around us and even our ability to develop and express a sense of our identity. It is imperative that our students experience and learn to use a wide range of ICT programmes for numeracy and literacy, how to use social media safely, critical thinking skills of digital literacy to evaluate whether sources of information are trustworthy and, increasingly, skills to manipulate ICT to generate media content.

ICT learning will be incorporated into all our learning, alongside discrete ICT sessions. In any given learning group, students are likely to be working on different things in different ways.

ICT is supported by a wide range of resources and methods of teaching and learning will vary according to the skills, interests and needs of individuals. It draws deeply on mathematical and scientific principles, whilst also allowing creativity and self-expression.

The programme of learning is planned carefully, following the National Centre for Computing Education framework, to meet the needs of all learners, ensuring breadth of experience and allowing individual, meaningful progress across Key Stages.

Content is planned across key strands:

- Computer Systems and Networks;
- Programming, including Algorithms;
- Data and information;
- Creating media;
- Design and Development;
- Effective use of tools;
- Impact of technology;
- Safety and security (mapped against the Education for a Connected World framework)