

ICT -Key Stage 3-

Topics that will be discussed within the subject at this Key Stage

During Year 7 students will learn about the following aspects of computing as part of the curriculum requirements:

- Internet Safety and Security
- Navigating the school network using cloud storage
- Creating Presentations & Documents
- Computational Abstraction
- Algorithms
- Boolean
- Logic
- Binary
- Programming

During Year 8 and 9, students will learn about the following aspects of ICT as part of the curriculum requirements:

- Hardware & Software
- User Interfaces
- Programming
- Encryption Techniques
- Presentations & Documents
- Data Structures
- Information Systems

Here students plan, design, test and evaluate an interactive computer program using Scratch.

- Digital graphics
 - Flash Animation
 - Computer systems
 - Students will study how hardware and software are used in a PC.
 - How PCs are connected together to share data and how services, as well as data handling, use these facilities.
 - Digital Graphics
 - Students will develop skills in graphics and animation using professional software.
 - Web design, HTML and Internet use.
 - Using professional software, students plan, design, test and evaluate their own website and examine Internet technologies.
- Programming
- Develop programming skills to a high level using professional software (Python).

Grading System

For each unit of work students will have 2 progress assessments. This will determine whether they have exceeded, extended or secured the knowledge and skills they have learnt in the unit. Teacher feedback will be given at least every fortnight to measure students' progress. Moreover, opportunities will be provided for students to peer assess each other's work and modify their own. Peer assessment and peer teaching is also an important part of how we learn at Ernesford Grange.