Computing Curriculum at Glapton Academy

Computing- Subject Leaders

Mr Phillips

Qualifications:
Primary Education with QTS BA (hons)

Roles:
Year 4 class teacher
Computing Lead

Computing - Subject Vision

Our aim at Glapton Academy is for the pupils to show good levels of digital literacy and logical thinking when leaving Key Stage 2. Glapton Academy will provide high quality, inclusive education and professional development in Computing for all pupils. Pupils will feel confident in using modern technology to create, present and problem solve in an ever-changing world of technological advancement. Safeguarding when using technology is our upmost priority in Computing at Glapton Academy. Pupils will feel safe when using technology, including the internet. They are able to navigate the internet and manage anything that makes the feel uncomfortable or unsafe.

Computing - Subject Aims

Our curriculum for Computing aims to ensure that all pupils:
- Use technology safely and responsibly
- Recognise acceptable and unacceptable behaviour, and know where to go for help and support when they have concerns about content or contact on the internet
- Select, use and combine a variety d software on a range of digital devices to create organise, store and achieve given goals.
- Use logical reasoning to explain how simple algorithms work
- Design, write and debug programs that accomplish specific goals including controlling or simulating systems.
- Understand computer networks including the internet, how they can provide multiple services and the opportunities they offer.

Computing - Subject Design

The Glapton Computing curriculum uses the iCompute scheme of work. This uses planned lessons, from National Curriculum objectives, to ensure that the sequence of learning builds on what has been taught before and works towards an end goal. This scheme of work benefits both pupils and staff because it encourages professional development and raises subject knowledge confidence. This enables teachers to deliver high quality lessons while understanding the curriculum's sequence of learning.

LEAPs are carefully devised from the scheme and edited to suit our learners. These LEAPs directly link to the scheme and the National Curriculum objectives. Teachers will use this to inform their long term and short term planning. The LEAPs fall into the following Computing concepts:
- E-Safety
- Computer Science
- Digital Literacy
- Information Technology

Teachers will use these clear concepts to inform their planning and subject knowledge. They will understand the difference between main concepts and subject knowledge.