



Computing Long Term Plan

Denewood Academy

Computing Intent:

At Denewood Academy, we recognise that Computing plays a vital role in everyday life. Our aim is to equip pupils with the computational thinking, creativity, and digital literacy needed to thrive in a digital world and stay safe online. Computing skills are embedded across the curriculum, with strong links to Mathematics and Science, ensuring a broad and interconnected learning experience.

Our Computing curriculum is rooted in the National Curriculum objectives but thoughtfully adapted to meet the needs of our pupils. We focus on developing not only technical skills but also confidence, character, curiosity, creativity, and a sense of challenge. For example, in both Maths and Science, pupils are taught to apply information technology to log and analyse data. This challenges pupils to analytically solve problems using the skills they have learnt.

Pupils are encouraged to apply their learning to real-life scenarios—for example, managing a personal budget using Excel spreadsheets—making their learning meaningful and practical. We also enrich the curriculum through external workshops, such as robotics at the Magna Science Centre and drone programming in school. These experiences deepen pupils' understanding of programming and foster analytical thinking and problem-solving skills.

By building a strong foundation in Computing, our pupils are well-prepared to continue their education in college and beyond.



Computing is embedded in the following subjects:

Science - Pupils research and input and analyse experimental data. Pupils learn programming and through creative STEM projects.

- Mathematics – Pupils handle and analyse mathematical data using Microsoft Excel and create posters and presentations on various topics.
- Creative Arts - Pupils learn to create and edit images in a graphical editing and edit sound in a sound editing suite.
- Topic - Pupils research various topics relating to themes in History, Geography and Religious Education e.g. River and Mountains.
- PSHE- Pupils research various topics and themes for group/pair work.
- English – Pupils use Microsoft Word to document answers, make posters and use the tools to support spelling and grammar.

We want all pupils to leave Denewood as responsible digital citizens who have a love of learning and who are ready to explore their future potential.

