



Computing: Intent, Implementation & Impact

Curriculum Intent

At Maulden Lower School, in their Computing lessons, children will:

- Understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- Analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- Evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- Be responsible, competent, confident and creative users of information and communication technology.

Curriculum Implementation

Our Computing curriculum covers the skills outlined in the EYFS Framework and National Curriculum through broad, challenging, and inspiring units of work. The required coverage is broken down into long term plans, then further divided into medium term plans by teachers. Whilst the EYFS and National Curriculum forms the foundation of our curriculum, we make sure that children learn additional skills, knowledge and understanding and enhance our curriculum as and when necessary. Children receive weekly Computing lessons and ICT skills are also built into other subjects across the curriculum.

A curriculum coverage document maps out when each year group is completing a specific unit of work and reflects how each element of computing is covered throughout the year groups.

Progression grids are used to ensure knowledge, skills and vocabulary build year on year. This ensures that by the end of year 4 pupils have a wealth of knowledge and skills to aid in their future studies and in the wider world.

At Maulden Lower School, we follow the Purple Mash planning scheme. The key areas of learning for each year group are:

- Digital Literacy including Online Safety.
- Computer Science
- Information Technology

Assessment & Recording

Computing learning is recorded in computing folders where evidence has been printed. Otherwise computing learning is saved in children's Purple Mash folders. Due to the practical nature of computing, evidence of work undertaken by children for topics which are heavily computing based can be in the form of teacher's notes or as a photographic record.

Teachers continually assess children's knowledge, understanding and skills in computing by making observations of the children working during lessons. The progression grid document is used as a reference for what children should have achieved by the end of each year group following three areas: Key Knowledge, Skills and Vocabulary.

This assessment is then used to inform the adaption, support and challenge required by the children.

As part of our assessment for learning process, children will receive both verbal and written feedback to aid progress in the subject, usually during the time of teaching to overcome misconceptions and encourage confidence in computing. Children are also encouraged to be critical of their own work, highlighting their own next steps and thinking creatively about their choices.

British Values and SMSC

There are many approaches and attitudes to learning which have links to British Values and SMSC these are promoted within Computing Online Safety.

Curriculum Impact

Computing is an integral part of the national curriculum and is a key skill for everyday life. Computers, tablets, programmable robots, cameras and are a few of the tools that we use to acquire, organise, store, manipulate, interpret, communicate and present information. At Maulden Lower School, we recognise that pupils are entitled to quality hardware and software and a structured and progressive approach to the learning of the skills needed to enable them to use it effectively.

We measure the impact of our Computing Curriculum through:

- Formative teacher assessment of pupils' achievement
- Summative assessment at the end of each unit of work
- Pupil surveys and pupil voice activities
- Parent surveys
- Lesson observations
- Monitoring pupils' work
- Curriculum reviews
- Behaviour and attendance
- Interest in extra-curricular activities