

# Computing at Offley Endowed Primary School and Nursery

## Intent – Our aims for Computing are that pupils:

Learn within a coherent and progressive framework that enables them to both develop their skills and improve their knowledge;

are taught it as a creative subject in which they are encouraged to use their initiative, imagination, reasoning and investigative skills across a range of interesting contexts;

become responsible, competent, confident and creative users of information and communication technology;

all achieve to the best of their ability, experiencing the challenge and joy of learning; work on Computing tasks both individually and collaboratively with others to solve problems and create work for different audiences;

appreciate the relevance of Computing in our society and receive equal opportunities to apply and develop their Computing capability.

### National Curriculum

The National Curriculum purpose of study 2013 states “The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use and express themselves and develop their ideas through information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.”

Therefore, three main strands underpin the teaching of computing:

- **computer science** - pupils are taught about the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming;
- **information technology** - pupils are taught how to use programs and computer systems to create and develop their ideas;
- **digital literacy** - pupils are taught how to use online technologies safely, effectively and responsibly.

We use a ‘spiral’ programme which revisits areas in increasing detail as pupils move up the school.

# Computing at Offley Endowed Primary School and Nursery

## Implementations

### Supporting Documents

Alongside the National Curriculum, we use a series of documents to underpin the programme of study and describe the knowledge, skills, understanding and vocabulary that are expected at each age and stage.

1. The Long-Term Plan provides a year on year overview of the topics that are covered across the school and the key vocabulary that will be introduced with each unit. This supports all children to develop a rich and precise vocabulary.
2. The Progression Map details the expected development of knowledge, computing skills and understanding from EYFS to year 6 and is used to plan age appropriate lessons, to set targets and make accurate assessments.

### Planning

When planning a topic, teachers plan programmes of study that provide children with a body of knowledge related to that topic and opportunities to develop the Computing skills appropriate to their age and level of attainment. Topic targets are mapped onto the Computing skills progression map to ensure that teaching is correctly addressing and developing the children's skills and understanding. This also ensures that assessment against the targets is precise and meaningful as targets directly link to progression statements.

### Cross-Curricular Links

At Offley, Computing is taught as a discrete subject under the umbrella of a wider topic. Close cross-curricular links are made with History, Art, D&T, PSHCE, Science, Maths and Literacy. In addition, opportunities to make links with other subject areas are taken wherever possible.

## Impact – How we will know we have achieved our aims?

Pupils will demonstrate improved, technical skills including knowledge and some technical vocabulary.

Pupils will have been given opportunities to use their initiative, imagination, reasoning and investigative skills across a range of interesting computing contexts;

Pupils will be responsible, competent, confident and creative users of information and communication technology;

Pupils will have been given opportunities to complete Computing tasks both individually and collaboratively with others to solve problems and create work for different audiences;

Pupils will develop an understanding of Computing in our society and have received equal opportunities to apply and develop their Computing capability.