



Computing and Online Safety at Jeavons Wood

Computing is changing the lives of everyone. Through teaching we equip children to participate in a rapidly changing world where work and leisure activities are increasingly transformed by technology. Computing aims to enable pupils to use computational thinking and creativity not only in the area of computer science, but also in cross-curricular way, linking to area of Mathematics, Science, English and many others. At the core of the study of computing, however, is computer science, in which pupils learn to study and manipulate information and computation, researching how digital systems are effectively structured and creating and debugging programs in a range of context. Alongside this, pupils will be supported in becoming safe and digitally literate individuals who can develop their ideas through the medium of ICT.

Aims and Objectives

- To support children to understand and apply the fundamental principles and concepts of computer science, information technology and digital literacy.
- To teach the children analyse problems in computational terms and have repeated practical experience of writing computer programs in order to solve such problems.
- To inspire children to evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- To ensure that children are responsible, competent, confident and creative users of information and communication technology.

We will do this by:

- Developing children's individual Computing capability.
- Developing skills and understanding as well as knowledge.
- Developing the use of technical language.
- Enhancing learning in other areas of the curriculum using Computing.
- Developing Computing as a tool for learning and investigation in all subjects.
- Equipping pupils with the confidence and capability to use Computing throughout their later life.
- Recognising the potential and deepen the awareness of the application and necessity of Computing in everyday life.
- Stimulating interest in new technologies.
- Exploring their attitudes towards Computing and its value to them and society in general. For example, to learn about issues of security, confidentiality and accuracy.
- Using Computing for effective and appropriate communication.
- Using their Computing skills to develop their language and communication skills.