# All Saints Computing Curriculum

A family: uniquely made and loved by God

## Intent

Through our computing curriculum at All Saints Laxfield, we aim to give our pupils the life-skills that will enable them to embrace and utilise new technology in a socially responsible and safe way in order to flourish. It is important that children have the skills to operate in an ever-growing technological world. Our Computing curriculum focuses on a progression of skills in digital literacy, computer science, information technology and online safety to ensure that children become competent in safely using, as well as understanding, technology. These strands are revisited repeatedly through a range of themes during children's time in school to ensure the learning is embedded and skills are successfully developed.

Key concepts:

Algorithms, binary, computer science, creating, debugging, digital literacy, e-safety, hardware, information technology, internet, network, problem solving, program, repetition, sequencing, software, storing, variables, world wide web

Our locality

In the school, we currently have high-speed, wireless broadband which allows pupils to use the network efficiently throughout computing lessons and in other subjects.

## **Implementation** Making Computing come alive.

At All Saints Laxfield, computing is taught through a sequence of discreet lessons using Purple Mash with the support of Kapow in some year groups. Having discreet lessons allows children to gain greater confidence in their computing skills and develop a greater understanding. Lessons are based around key objectives in the 2014 National Curriculum to ensure wide breadths of skills are covered. Cross-curricular links will be made when appropriate and meaningful. Children should become: digitally literate, confident technology users, problem solvers and creators of content. To ensure a broad range of skills and understanding, Computing is taught across three main strands: digital literacy, computer science and information technology. As part of information technology, children learn to use and express themselves and develop their ideas through ICT for example writing and presenting as well as exploring art and design using multimedia. Within digital literacy, children develop practical skills in the safe use of ICT and the ability to apply these skills to solving relevant, worthwhile problems for example understanding safe use of internet, networks and email. In computer science we teach children to understand and apply the fundamental principles and concepts of computer science, including logic, algorithms and data representation. Also to analyse problems to computational terms, and have repeated practical experience of writing computer programs in order to solve such problems. We also teach a progression of computing vocabulary to support children in their understanding.

**Impact** Assessment:

Pupils at All Saints Laxfield will receive continuous assessment and feedback on how to improve their work and develop key skills.