



## COMPUTING

### Statement of Intent, Implementation and Impact

Our children will harness technology and draw on links with other subjects, developing the skills and knowledge to safely flourish in a 21<sup>st</sup> century world.

#### Why do we teach Computing at St. John's?

##### Intent

At St. John's, we value the importance of a high quality computing curriculum. We strongly believe that 'computational thinking' is a skill children must be taught in order to fully participate effectively in an increasingly digital world. Technology is a significant part of everyone's daily life and children should be at the forefront of new developments.

Our computing curriculum ensures that our pupils are digitally literate – able to use information and communication technology to fully express themselves and develop their ideas. We aim for all children to use technology both effectively, being equipped with the skills and knowledge that they need and safely. It is vital that our children know how to stay safe online, understanding the potential risks and consequences of using the internet.

By the time our children leave St. John's they will have gained key knowledge and skills in three main areas:

- Computer science (programming and understanding how digital systems work)
- Information Technology
- Digital Literacy (evaluating digital content and using technology safely and respectfully)

##### Implementation

Our ambitious, knowledge-engaged computing curriculum enables the children at St. John's to become computing experts.

In Key Stage 1 and Key Stage 2 children are taught fun and exciting weekly lessons through the Purple Mash scheme of work. Lessons are mainly delivered in our computer suite but can sometimes be classroom based with iPads or laptops, and sometimes without technology at all to develop computational thinking. Through the scheme of work children build on their learning each year in the following units: coding and computational thinking; spreadsheets; internet and email; art and design; music; databases and graphing; writing and presenting; and communication and networks.

In early years the children are given opportunities to explore a variety of technology such as Bee Bots and iPads. They are also set homework tasks to become familiar with various technologies. Combined, these opportunities allow the children to achieve their early learning goals using technology to enhance.

### **Impact**

The impact of our computing curriculum will be that the children at St John's will be digitally literate and able to join the rest of the world on its digital platform. They will be equipped with the skills and knowledge to use technology in a safer way. We want our children to understand the consequences of using the internet and how to keep themselves safe online. We want them to be able to safely use technology to support relationships between individuals and groups of people either personally or professionally, and know how their computational thinking and creativity can change the world. As children become more confident in computing, they will become more independent and life skills, such as problem solving and logical thinking, become second nature.