



### **Intent**

Computing at Ranvilles aims to instil a sense of enjoyment around using technology and to develop pupil's appreciation of its capabilities and the opportunities technology offers to, create, manage, organise and collaborate. Exploring software and programs forms a part of the ethos of the scheme as we want to develop pupils' confidence when encountering new technology, which is a vital skill in the ever evolving and changing landscape of technology. Through our curriculum, we intend for pupils not only to be digitally competent and have a range of transferrable skills at a suitable level for the future workplace, but also to be responsible online citizens.

The Computing curriculum at Ranvilles will be inclusive for all, enabling children across all abilities to access the technologies and programs used and to show a development of their understanding throughout their time here. Children will be equipped with the skills for life in the digital world, including developing their understanding of appropriate online behaviour, copyright issues, being discerning consumers of online information and healthy use of technology.

### **Implementation**

The computing curriculum is aspirational. It is biased and shaped to meet the individual, contextual and holistic needs of all pupils. Formative assessment is used constructively to secure ambitious objectives, supporting learners to maximise their abilities.

Computing at Ranvilles will focus on the three key strands of the National curriculum: Computer Science, Information Technology and Digital Literacy. As children progress through the school, they will experience a cyclical route through which pupils can develop their computing knowledge and skills by revisiting and building on previous learning. The implementation of Ranvilles Computing Curriculum ensures a broad and balanced coverage of the National curriculum requirements and certain units provide pupils with the opportunity to learn and apply transferable skills. Where possible, units have been mapped carefully to create links to other subjects such as Science, Art and Music to enable the development of further transferable skills and genuine cross-curricular learning.

Lessons incorporate a range of teaching strategies from independent tasks, paired and group work as well as unplugged and digital activities. This variety means that lessons are engaging and appeal to those with a variety of learning styles. Adapted support is available for every lesson to ensure that lessons can be accessed by all pupils and opportunities to stretch pupils' learning are available when required. Knowledge organisers for each unit support pupils in building a foundation of factual knowledge by encouraging recall of key facts and vocabulary.

Strong subject knowledge is vital for staff to be able to deliver a highly effective and robust computing curriculum. All teachers understand the programs and technology and are able to effectively model the skills being taught to the children. Where unsure, teachers seek out and receive support from the Computing lead to enable high quality teaching across all areas of the Computing curriculum.

All children have one hour scheduled in the Computing suite once a week as well as regular access to iPads and laptops. This enables all children to work on a variety of devices, understand the differences between devices and operating systems and explore which devices work best for different tasks. Children are taught how to search online safely and effectively and are given opportunities to practise these skills throughout the rest of the curriculum with teachers ensuring that the use of technology supports the children in a variety of ways.

## **Impact**

Knowledge, built in the discipline of Computing, is utilised in the Ranvilles SMSC 'Big Debate' at the end of a half term. The Big Debate connects key subject disciplines. Learners draw on the knowledge and skills explored in history to: **S**equence ideas, **T**hink critically, **A**rticulate precisely, **R**espond respectfully and **S**ynthesise collaboratively. This process enables learners to positively push new boundaries in exploring the world. They also understand and appreciate the developmental knowledge and skills required to be successful technology users. Summative assessment is used carefully to evaluate success and plan to meet future needs.

Pupils will leave Ranvilles Junior School equipped with a range of skills to enable them to succeed in their secondary education and be active participants in the ever-increasing digital world. They will have experienced a range of technologies and programs and be

confident in using technology to support and enhance their learning. Each lesson is used for teachers to assess pupils' understanding and areas of need are recapped and consolidated before progressing further. They will be enquiring learners who ask questions and can make suggestions about where to find the evidence to answer the question. They will be critical and analytical thinkers who are able to make informed and balanced judgements based on their knowledge of the past.

The expected impact of following our Computing scheme of work is that children will:

- *Be critical thinkers and able to understand how to make informed and appropriate digital choices in the future.*
- *Understand the importance that computing will have going forward in both their educational and working life and in their social and personal futures.*
- *Understand how to balance time spent on technology and time spent away from it in a healthy and appropriate manner.*
- *Understand that technology helps to showcase their ideas and creativity. They will know that different types of software and hardware can help them achieve a broad variety of artistic and practical aims.*
- *Show a clear progression of technical skills across all areas of the National curriculum, computer science, information technology and digital literacy.*
- *Be able to use technology both individually and as part of a collaborative team.*
- *Be aware of online safety issues and protocols and be able to deal with any problems in a responsible and appropriate manner.*
- *Have an awareness of developments in technology and have an idea of how current technologies work and relate to one another.*
- *Meet the end of key stage expectations outlined in the National curriculum for Computing.*