

Curriculum statement for the teaching and learning of Computing

Intent	At St Oswald's School computing provision aims to teach our children to engage in an ever changing world where work and leisure activities are being innovated by technology. It is our intention to enable children to find, explore, analyse, exchange and present information in a safe, responsible and respectful manner. We also focus on developing the skills necessary for children to be able to use information in an effective way. Our computing curriculum uses a range of software (Scratch, Google Docs, Google Sheets, Video editors, etc) which enables children to develop their problem solving and reasoning abilities. It enables children to understand and apply the essential principles of Computing including logic, algorithms and data representation, analyse problems and debug them, and have repeated practical experience of writing computer programs in order to solve problems. Computing skills are a major factor in enabling children to be confident, creative and independent learners in the modern world and it is our intention that children have every opportunity available to allow them to achieve this.			
Underpinned by	The teaching of skills	The application of skills	Vocabulary	Online Safety
	Children will be taught to use a range of computer software, including spreadsheets, databases, email systems, word processing, multimedia presentations, app development, control programming and coding.	The children at St Oswald's have many opportunities to practise the skills they learn in computing in various other subjects in our curriculum. The different skills we teach are revisited so children can build on their learning regularly.	St Oswald's children will understand and use the correct vocabulary when talking about computing, such as: programming, e.g. algorithm, debug, input, output, and variable.	We have a focus on online safety when teaching computing at St Oswald's, the children learn how to use mobile technology and the internet safely. Online safety is not only taught in computing lessons, but in PSHE lessons, assemblies and workshops.

Implementation	Curriculum Approach Children engage in weekly computing lessons that are often linked with their Class topic (if the link is clear). Children are supported and stretched through the different topics which build upon previously learned knowledge and skills. Those who are working at greater depth are able to broaden their knowledge and skills within these units. Skills established in computing lessons are used throughout the curriculum to support and enhance the learning.	Spiritual, Moral, Social and Cultural Many of our computing topics discuss the moral dilemmas the internet can present and how to try and solve them. Pupils return to this aspect of right and wrong choices through online safety which is woven through the curriculum. Cultural aspects are discussed through artwork and online communities.	Online Safety We have a large focus on Online Safety at St Oswald's. Children receive regular teaching about online safety. This comes as a unit of work in each year group through the computing modules. Children also have regular opportunities through assemblies and workshops to learn about the importance of online safety. Within school, children are able to use the internet through a secure filtered system. We have helpful links on our school website that will assist parents in finding helpful tips and advice about keeping their child safe online.
	Sharing Work The children's work is saved to the cloud for both teachers and other children to view. As all children in KS1 and KS2 have their own Chromebook, they can view each other's work via cloud based computing. This also allows children's work to be shown and praised in assemblies.	Local Context Children are taught using relevant links to the local area and the wider world with the technologies which the skills within the unit can be applied to.	
	Resources The children at St Oswald's have access to individual Chromebooks, these are used in a variety of subject areas as well as computing, strengthening their ability to apply the skills they have learnt. The software that is used in St Oswald's is modern and relevant and are usually accessible for pupils to use at home to develop extracurricular engagement.	Thoughtful Questioning Questions woven through the planning for the units of work allow pupils to think deeply and logically about their work at hand. Pupils working towards the learning expectation are supported through careful questioning and peer support.	

Impact	By the end of the key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the subject of computing programme of study.			
	Pupil Voice	Evidence in Knowledge	Evidence in Skills	Breadth and Depth
	When talking to the children in each class they say that they enjoy the units of work they complete. They take pride in problem solving to ensure their programme works correctly. The children can explain how to stay safe online and what to do when they see something that makes them feel unsafe.	Children understand why they are learning the topics that we have in computing and can link their learning to the wider world. Children are able to articulate themselves using acquired vocabulary from the computing unit modules.	Children can apply their learning to new problems in order to solve them, they can also explain how and why they solved them. Pupils are confident at explaining their work to people and their work is at an expected or greater standard.	Pupils have developed their ideas beyond the expected example for the end of unit product. Pupils are confident in explaining their thoughts and feelings about their work and are reflective about their working process.