ST. ANNE'S C.E.(VC) PRIMARY SCHOOL

Computing INTENT, IMPLEMENTATION + IMPACT
'Together with God, Making Learning a Life Long Friend'

Intent:

Our children are growing up in an increasingly technological world. The ability to understand all aspects of computing is an essential life skill in the 21st century. The majority of children coming into St Anne's arrive with a lot of ICT knowledge and hands-on experience gained from an unprecedented access to technology from a very early age. Modern children are demonstrating an aptitude for computational devices such as smartphones and tablet computers with an unparalleled intuition before they are even forming comprehensible words. As such, our task is to equip them to hone the skills, knowledge and understanding of computing while developing the ability to use technology and the Internet appropriately and safely. We believe that high-quality computing lessons will inspire children to think innovatively and develop creative procedural understanding. Computing is a subject that provides children with the means of accessing the modern world and to express themselves creatively and practically. We want children to acquire the skills and knowledge of computing in a systematic way so that each child is able to produce results that demonstrate their achievements and be enabled to access the digital world.

Implementation:

After spending some time exploring different schemes, we have settled on using Purple Mash as a framework to operate within as the units of study are well-linked to the National Curriculum. Purple Mash offers us a cohesive scheme of work to use which ensures that objectives are met in a progressive and logical manner. It also provides us with a system of cloud saving that the children can access for their work, as well as a wealth of resources available to children for use at home which can support learning across the curriculum.

Our computing curriculum fits the needs of our children as the school has concerns around e-safety and the potential vulnerability of some children. We recognise the importance of e-safety and as such each year group covers it at the beginning of each year in computing as their first unit of study. Elements of this are also covered throughout the year during PSHE, in whole-school assemblies and in other computing units of study.

Children all enjoy computing and we seek to use it more to deepen their learning across the curriculum through cross-curricular activities in our efforts to ensure that our wider curriculum is broad and balanced. In addition, we offer extracurricular activities that use children's computing skills and wider thinking. Since 2019 we have offered an extracurricular Technical Lego club that encourages lateral thinking and teamwork and challenges children to create very precise instructions in order to get their robot to solve a specific task. We also offer a Maths in Motion club that encourages practical thinking applied to engineering through a digital

medium, wherein children design and tweak racing cars and then compete in very stringent races that account for tyre wear, weather condition and fuel economy.

At St Anne's we aim to provide an education in computing that enables all pupils to:

- understand and apply the basic principles and concepts of computer science, including presentation, algorithms and data representation,
- analyse and debug problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems,
- evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems, and
- be responsible, competent, confident and creative users of information and communication technology.

Impact

Our Computing Curriculum is high quality, well thought out and planned to demonstrate progression. If children are keeping up with the curriculum, they are deemed to be making good or better progress.

In addition, we measure the impact of our curriculum through the following methods:

- Comprehensive yet manageable teacher assessment in line with both the Purple Mash scheme of work and National Curriculum objectives,
- An area for each year group to display work in which shows progression through the school,
- Cross-curricular links that enable children to use their digital presentation skills in a variety of ways in multiple lessons.

The impact of our curriculum will also be measured by how effectively it helps our pupils develop into well-rounded individuals who embody our school values and carry with them the knowledge, skills, and attitudes which will make them lifelong learners and valuable future citizens. We endeavour for pupils to have all six of our school's core values embedded and utilised by the time they leave St Anne's at the age of 11. These are: *kindness, respect, perseverance, honesty, faith and community*. When children leave St Anne's they are not only ready for their journey into Key Stage 3, but are well-rounded individuals with positive attitudes towards learning who use technology with a sense of responsibility.