Computing

Computing Leader: **Mr E Burke**

Mr Burke's passion for Computing

My interest in computing has developed out of what I believe is a natural aptitude for the subject and a deep belief in the importance of IT in the modern world. The ever changing world of technology is advancing at a tremendous rate with new inventions and technologies coming into place, to most of us, can be quite daunting. This ignited my passion and I inspire to give the children of St. Paul's a great chance to take the skills needed to use in their future lives. Having an enriched computing curriculum throughout the school will provide the necessary tools for the children to grow and develop as young children in the world of technology.

Computing Subject Vision

Our vision at St Paul's C of E Primary School, we know that high – quality computing education equips our children to use computational thinking and creativity to understand and change the world. It enhances learning across the curriculum and has deep links with our teaching of mathematics, design and technology and science. The children will be diving into coding, decomposition, debugging, all essential tools to familiarise themselves with what computing and technology has to offer.

Our computing curriculum enables our children to become digitally literate throughout the ever changing digital world. It is changing the lives of everyone, especially children and young people. It gives them a strong foundation to express themselves and develop their own ideas through information and communication technology at a level suitable for the future workplace.

Computing and St. Paul's Values & Ethos

The following St Paul's values are evident in our computing curriculum.

Friendship and Nurturing:
Each lesson centres around creating an environment that encourages children being respectful to one another by listening to what is being taught. Computing enables the children to work together as a team, giving the opportunity for new friendships to blossom, whilst working together to overcome challenges whilst encouraging one another.

Respect and Tolerance:
Each lesson is taught in a way that encourages children to show respect towards their peers. Every child at St. Paul's is entitled to have an opportunity to share their own ideas whilst feeling comfortable when they are presenting or performing.

Honesty and Integrity:
In many lessons, children are asked to express the knowledge or findings in computing to the class. This will involve others sharing feedback with one another, but providing it in the most respectful and kind way. Children at St Paul's are encouraged to have the confidence to share feedback with their peers as it is a key way to learn from one another.

Perseverance and Courage:
Due to the high expectations we have of our children here at St. Paul's, our children are encouraged to be brave and take on challenges. Computing is tricky! But the children will strive to push themselves and overcome the challenges. The children are encouraged to not be afraid of making mistakes. From mistakes come fabulous ideas!

National Curriculum aims for Computing

The national curriculum for Computing aims to ensure that all pupils:
- Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms, and data representation. **(CS)**
- Can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems. **(CS)**
- Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems. **(IT)**
- Are responsible, competent, confident and creative users of information and communication technology. **(DL)**

SMSC Subject Statements

Spiritual

Computing supports spiritual development by looking at how research can bring rapid benefits to discussions and tolerance to an individual's beliefs. However, children are also exposed to the limitations and abuse of the internet where they question and justify the aims, values and principles of their own and others' belief systems.

Moral

Computing supports moral development by looking at how developments have had an impact on the environment as technology has meant that old ways of working have been changed to help the environment.

Social

Computing supports social development by completing of group work within lessons as well as practical tasks. Children are required to understand about social media and the advantages these sites have brought as well as the numerous problems such as keeping safe online and cyber bullying.

Cultural

The development in technology has impacted different cultures and backgrounds in different ways. More developed countries are able to keep pace with the developments in technology whilst less developed ones cannot.