St Finbar's Catholic Primary School

Computing Curriculum Statement

The Big picture (Overview)

At St. Finbar's Catholic Primary School, we emphasise the importance of nurturing a child's computing skills to ensure a successful future. In a constantly evolving world where technology takes the lead, our goal is to instil confidence and enthusiasm in students, fostering an exploration of computational thinking. We aspire for pupils to progress steadily in their computing education, encouraging them to set ambition goals for future careers as engineers, programmers, developer, or any pursuit aligned with their talents.

Ensuring the safety of our children in an expanding technology landscape is of utmost importance. We empower our pupils to become self-assured, informed and adept issues of the online world.

What it's like to be a computer scientist in our school (pupil voice)

I liked using the computer to find out about my favourite toys on the internet. (Y1)

I went on scratch junior to make a cat fly to the moon using programming. (Y2)

I like computing because in our topic we are using scratch to make a dancing robot. (Y3)

I love presenting my work on the computer and learning about how to stay safe on the internet. (Y4)

Computing in my favourite subject and I am good at debugging and finding problems with my algrithms (Y5)

We use google classroom a lot to publish our work, present our ideas in different ways. WE also learn about staying safe online. I have enjoyed using spreadsheets to budget my finances. (Y6)

Teaching and Learning (Key learning and skills)

- Comprehend and put into phrase the fundamental principles and concepts of computing science, encompassing abstractions, logic, algorithms and data representation
- Explain problems through a computational lens, repeating engaging in the hand-on experience of crafting computer programs to address such issues
- Assess and apply information technology, including unfamiliar or new technology, analytically for problem-solving purposes
- Demonstrate responsibility, competence, confidence and creativity as users of information and communication technology

What we want our curriculum to help our children know and do (Intent)

We have devised our own curriculum with the potential of the evolving digital world. We aspire for them to acquire new skills and gain independence as a result. Consequently, we emphasises modelling positive, safe and responsible use of technology to guide our pupils. Each year group is provided with opportunities to immerse themselves in new technology.

Through strategic planning, we integrate Computing across the curriculum, offering regular chances to explore subject technologically with strong, relevant and meaningful connections.

Our curriculum spans digital literacy, computer science and information technology.

How we organise our curriculum (Implement)

Computing topics are centred on the core computing standards of: digital literacy, computer science and information technology. Our Computing curriculum has been crated to guarantee that skills, learning and knowledge undergo repeated reinforcement and expansion, facilitating the advancement of students to a high standard. By revisiting and developing skills throughout the years at our school, students not only deepen their understanding but also encounter progressively challenging content. The Knowsley clc curriculum serves as the foundation for planning in our school. This curriculum not only instils a passion for the subject among students but also fosters excitement and eagerness for each lesson, not only within the student body but also within the school and broader community.

Weekly computing lessons are conducted and meticulously monitored through floor books and google classroom, ensuring adequate time is dedicated to computing to facilitate the embedding and enrichment of learning. We firmly believe that structuring our curriculum in this manner enhances the likelihood that students at our school will retain the knowledge imparted to them, develop and advance their skills, and carry this proficiency forward into all their future endeavours.

How we know children are knowing and doing more (Impact)

We foster a culture where students not only enjoy but also appreciate and eagerly engage with the curriculum we offer. We instil in our pupils the importance of asking questions, fostering curiosity in the learning process, and understanding the journey towards achieving objectives. Our leaners actively discuss, reflect upon, and value the impact of effective education and healthy digital life.

The integration of computing across our entire school curriculum serves to help children recognise the importance of striking a balance, a skill they can continue to develop in subsequent stages of education and throughout their future lives. The computing skills acquired at our school are deigns to be lifelong. Regular discussion between staff and students are used to firmly establish and reinforce learning and knowledge.