Bartons Primary School Computing Vision

What does Computing look like at Bartons?

At Bartons we believe that our computing lessons should enable children to develop and use computational thinking skills and creativity. Computing extends into many other areas of the curriculum, with children using Information Technology in English, Maths and topic lessons. All of our classrooms are equipped with Clevertouch smart boards, which are used within daily lessons and each class has their own iPad. In addition, we have a laptop trolley with a class set of laptops, two iPad trolleys each with a full class set of iPads. The children also explore physical computing through resources such as BeeBots and MicroBits.

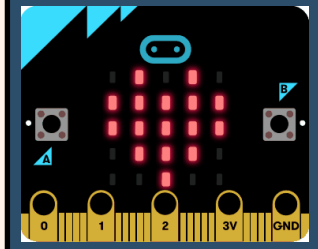
Enrichment Opportunities

We have a range of enriching activities that take place throughout the year which are designed to enhance children's understanding of computing in real life. These have included:

- STEM Club for Years 5&6
- In the past we have gone on STEM focused trips such as seeing computing in real life in the Future Lab at Festival of Speed.
- Enrichment weeks that have had a STEM theme.

I really enjoyed using the MicroBits to make step counters. It helped me to understand more about how computing is involved in lots of things I use everyday.

Year 6 child.



I like showing my learning using different computer skills. We put pictures and words together to make a fact-file.

Year 2 child.

What do we learn?

Computer Science is at the core of the computing curriculum and this is taught through discrete, weekly lessons across all year groups. The children are taught how digital systems work through offline activities and then they put this knowledge to work through programming – creating a range of programs, digital content and coding physical systems. These lessons use a range of apps, programmes and physical technology such as: BeeBot, Scratch and MicroBit. In addition to this, children learn to be digitally literate by taking part in regular E-safety lessons throughout the year and by using information technology to creatively express themselves; presenting work in a purposeful way. This includes using Microsoft programmes such as Word, Excel and Powerpoint, as well as a range of apps such as: DoInk (greenscreening), IMovie, Garageband and SeeSaw.

Why is it important?

We believe computing is a crucial part of the children's learning, as technology is now essential to navigating our present world and innovating for the future. Our children are growing up in a digital world, therefore it is important to ensure that our computing lessons at school allow them to become confident digital citizens – learning to be responsible for how they use information technology to interact with and enhance the world around them. By the end of primary school we want our children to:

- Enjoy using information technology with in a safe way with confidence.
- Be open-minded in their approach to information technology - being able to adapt to the different systems they may encounter in the future.
- Have practical skills in using information technology and have an understanding of the principles of computer science.
- Be able to independently choose and use information technology as a tool to enrich their