



Newton Bluecoat CE Computing Intent, Impact and Implementation

Intent:

At Newton Bluecoat, all pupils have the right to have rich, deep learning experiences that balance all the aspects of computing. We understand that we live in an ever-advancing technological world that is part of all our lives in many ways - linking with all curricular areas. We hope to nurture a love of digital literacy which will enable our children to express themselves, develop their ideas and equip them for the digital world beyond the classroom into adulthood and the workplace.

Our curriculum aims to ensure that children become digitally literate so that they can express themselves and develop their ideas through information and computer technology– at a level suitable for the future workplace and as active participants in a digital world.

We teach a curriculum that enables children to become effective users of technology who can:

- Understand and apply the essential principles and concepts of Computer Science, including logic, algorithms and data representation.
- Analyse problems in computational term and have repeated practical experience of writing computer programs in order to solve such problems.
- Evaluate and apply information technology analytically to solve problems.
- Communicate ideas well by utilising appliances and devices throughout all areas of the curriculum.

We are committed to ensuring, that when children leave us, they have the tools needed to embrace the benefits of technology throughout their lives.

Implementation:

All teachers follow a clear progression of skills and vocabulary which ensure that all pupils are challenged in-line with their year group expectations. Using AFL, teachers skilfully ask open questions which challenge children to quantify their answers and give examples using their own work.

To support teaching, we use a wide range of resources and planning. The bulk of the curriculum is supported through Purple Mash. This assists the teachers with planning and computing curriculum delivery, along with support for other curriculum subjects. We also use SeeSaw to create online learning portfolios which are also easily accessed by parents – forging a strong home school support system. Then, we have additional online resources, such as TeachComputing and Scratch, which supplement our delivery of the curriculum.

Each Key Stage group has the access to a class set of iPads on a rota basis. These offer the children the opportunity to implement technology not just in computing, but throughout the curriculum. We also have access to a computer suite which offers our children the chance to improve their basic mouse and keyboard skills.

Impact:

When children leave Newton Bluecoat, they will be confident in all areas of computing and are able to use these to accomplish a wide variety of goals, both at home and in school where technologies and trends are rapidly evolving.