Kenn and Kenton Federation

Computing Intent, Implementation and Impact

Intent: why have we designed our curriculum this way?

At Kenn and Kenton Federation, the intention of our Computing curriculum is to provide a high-quality education that equips our children to use computational thinking and creativity in the modern world. We aim to teach the foundations of computing through computer science, in which children are taught the principles of information and computation, how digital systems work and how to use this knowledge through programming. We aim for our children to become digitally literate, so that they are able to use and develop their ideas through information and communication technology, in an increasingly digital world.

Implementation: how do we carry it out?

The Primary National Curriculum for Computing is split into three strands: information technology, digital literacy and computer science. Our Computing lessons form teaching sequences which encompass these strands. We use The National Centre for Computing Education funded by the DfE as our programme of study, alongside various resources such as Twinkl, SCARF and Barefoot to support us with our teaching. These build on prior knowledge and follow a progression of skills and knowledge and vocabulary for each year group. Lessons also include regular teaching of e-safety to ensure that children feel confident when using computers and the Internet. We want our children to know what to do if they come across something either inappropriate or uncomfortable. We encourage our children to develop a love of the digital world and see its place in their future.

Impact

Our Computing curriculum will promote a love of learning where children show a progression in their skills and vocabulary to become confident, digital citizens. The National Curriculum requirements are covered by ensuring that all children are taught to:

- understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation

- analyse 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

- be responsible, competent, confident and creative users of information and communication technology.

It also needs something about cross-curricular work added to this, as that is the big thing that the MAT School Improvement Partner picked up in the Curriculum Intent Statement.