Statement of Curriculum Intent

The overarching aim of the <u>computing</u> curriculum at Duxford CofE Community Primary School is:

Children will be attentive, imaginative, motivated and spiritual learners who enjoy using, and are able to use, technology to research, explore and affect their world.

Our aim is that all children leave this school able to:
- Create and share using technology.
- Program/code/write algorithms for specific outcome(s).
    - This includes understanding logic and being able to debug.
- Use technology safely.
- Understand the role of technology in the world, including:
    - The history of technology.
    - Major landmarks in technology e.g. important inventions and inventors.[i]
    - Demonstrate an understanding of how technology influences their lives.

The curriculum coverage ensures this by:
- All key stages have the opportunity to develop their use of appropriate, functioning technology at a level that is appropriate for their age.
- All year groups have explicit learning and teaching about the safe use, and the abuse, of technology.
- Maximising the effectiveness of spaced-learning using cross-curricular opportunities for applying knowledge and skills understanding and for exploring the development and the role of technology in the world and in their lives (including: the history of technology, major landmarks in technology e.g. important inventions and inventors) are taken advantage of.

Teaching should ensure that there is a regular review of prior learning at the start of each lesson. Key vocabulary should be actively taught and definitions learned by children and these should be displayed in the classroom. Lessons should be planned so that children learn important information in a logical sequence and that lessons are learning not 'doing'. Teaching should be supported by trips, visits and real experiences wherever appropriate and valuable. Wherever possible, children should be facilitated to see real examples of what they are learning about, and if this is not possible, video, audio clips, photographs and drawings should be used.

Progression through the subject is planned to ensure that the content of the National Curriculum is taught in a logical way that builds on previous knowledge and skills through a structured sequence of lessons so teachers can ensure that they have covered the skills required to meet the aims of the NC2014. We use content that allows for a broad, deep understanding of computing and how it links to children's lives. It offers a range of opportunities for consolidation, challenge and variety. This allows children to apply the fundamental principles and concepts of computer science. They develop analytical problem-solving skills and learn to evaluate and apply information technology.

Curriculum progression is as follows: See subject curriculum implementation.

We ensure that this curriculum links with other areas of curriculum by: Computing permeates every aspect of today's lives and can be used in all areas of the curriculum. We ensure that pupils realise the positive contribution people from a range of backgrounds to the development of technology. We will not only emphasise the positive effects of science on the world but also include problems, which some human activities can produce.