Approach to Computing

Tadpole Farm
CE Primary Academy

What computing looks like at Tadpole Farm CEPA…

To ensure high standards of teaching and learning in computing here at Tadpole Farm, we implement a comprehensive curriculum based on the Purple mash scheme of work.This is a progressive curriculum, taught throughout the whole school and is in line with 2014 Primary National Curriculum requirements for KS1 and KS2 and the Foundation Stage Curriculum in England. This provides a broad framework and outlines the knowledge and skills taught in each key stage.

Intent:
What do we want children to learn?

At Tadpole Farm, we aim to prepare our learners for their future by giving them the opportunities to gain knowledge and develop skills that will equip them for an ever-changing digital world. We aim to create confident learners who know how best to keep themselves safe whilst using technology and know how to minimise the risk to themselves and others. Knowledge and understanding of ICT is important for children's future both at home and employment. Our curriculum focuses on a progression of skills in digital literacy, computer science, information technology and online safety. Our intention is that computing also supports our Enquiry Based approach and cross curricular learning to engage and enrich their experiences in school.

Implementation:
How do we do it at Tadpole Farm CEPA?

The teaching of computing happens in units split into the three strands that make up the computing curriculum- Computer Science, Information Technology and Digital Literacy. Computer Science underlines the knowledge and skills relating to programming, coding, algorithms and computational thinking. Information Technology underlines the knowledge and skills relating to communication, multimedia and data representation and handling. Digital Literacy underlines the knowledge and skills relating to online safety and technology uses. The units covered within a year are designed with some overlap to help deepen understanding of computational concepts and provide opportunities for pupils to apply and extend understanding and make links in their knowledge and capabilities. Following the Purple Mash scheme of work ensures consistency and a clear progression throughout the school. Computing lessons are taught by our teaching staff and the Purple Mash scheme of work enables clear coverage of the computing curriculum whilst also providing support and CPD for less confident teachers to deliver lessons. For some units and lessons, computing is taught discretely and at other times it is taught through a cross curriculum approach.

Impact:
On leaving Tadpole Farm CEPA, children will…

- View computing and learning with technology positively.
- Know the benefits technology can bring to their lives.
- Know about the potential dangers of using technology and take steps to be as safe as possible when online.
- Be confident with exploring how to incorporate technology into their learning.

Everything is possible for one who believes (Mark 9.23)