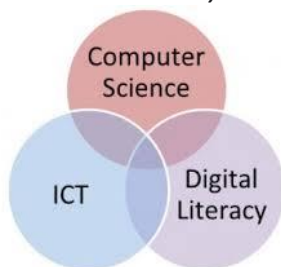


Computing

“We are preparing children for jobs that have not yet been invented, in order to solve problems we don't even know are problems yet.”

Richard Riley



Computing threads: Information Technology, Computer Science and Digital Literacy.

Computing Curriculum Rationale at Dorchester Primary

At Dorchester we aim for the children to be masters of technology. With technology being everywhere in the world we understand that it is a pivotal part of our pupils' lives. We aim to educate our children to use technology positively, responsibly and safely and ensure that they understand how their actions online can affect others. At Dorchester we provide a broad curriculum encompassing computer science, information technology and digital literacy.

We recognise that technology can allow pupils to share their learning in creative ways. Our knowledge rich curriculum has to be balanced with the opportunity for pupils to apply their knowledge creatively which in turn will help our pupils become skilful computer scientists.

We encourage staff to try and embed computing across the whole curriculum to make learning creative and accessible. We want our pupils to be fluent with a range of tools to best express their understanding and hope that by the time they leave, children have the independence and confidence to choose the best tool to fulfill the task and challenge set by teachers.

Our curriculum progressively builds vocabulary and concepts over time (see Computing Progression Document). Children Computing lessons are built around the **DPS pillars** and teachers plan opportunities for children to build upon their skills and knowledge in both areas.

Children will:

- Have the opportunity to use a range of programs and apps
- Use a variety of presentation tools
- Participate in partnered talk during every lesson
- Work collaboratively with others and communicate effectively
- Use problem solving skills to find solutions to programming problems
- Learn and use key vocabulary

Teachers will:

- Build lessons around the DPS Pillars and the Computing threads.
- Review learning at the beginning of each lesson
- Teach appropriate vocabulary linked to the units
- Follow the school's progression document.
- Provide opportunities for children to apply skills learnt
- Promote enjoyment and progress through planning exciting, challenging and engaging learning opportunities for all.