



EXPLORING COMPUTING

Intent • Implementation • Impact

Pembroke is a school where we encourage everyone to be **inspired** through faith in God and to live by Christian values so that our **teaching and learning** is of the highest quality, our whole community **flourishes** and we reflect all that is worthy of **praise**.

INTENT	How does computing inspire our children?	A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. We recognise that in our current age, computing technology develops rapidly and we hope to introduce to our children ways that this technology can do some things more quickly, more efficiently or even more spectacularly than without it. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. We specifically link aspects of our art, music and English curriculums and teach research-based lessons in other subjects through the use of computing technology. The very nature of computing and its potential excites children to discover more about the science (or how things work) of computing, and then use it to create simple programs and content. We want our children to become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.	
IMPLEMENTATION	How is our teaching and learning in computing organised?	A two-year rolling programme ensures that computing skills, knowledge and understanding are built on and developed as children move through the school. In the Early Years, children have opportunities to learn early reading and maths skills using simple iPad apps. As children move through school they focus on algorithms and programs, data retrieving and organising, and communicating (at Key Stage 1) together with using the internet, databases, and presentation (at key Stage 2). Children have at least one unit of learning a term but will make full use of iPads and/or laptops at different times during each week. E-safety is taught regularly through computing lessons and in our PSHE curriculum. We use Focus Education® to help ensure knowledge, skills and understanding are complete. Our learning behaviours are interwoven with these so that we enable children to engage in the subject with growing independence and curiosity so that they can make connections across different subjects. Where possible, we make good use of Herefordshire Computing Support to advise on our computing experiences.	
IMPACT	How does computing help our children to flourish and be worthy of praise?	Computing should enhance and never hinder learning. We are pleased when children make decisions about how and when computers and other information technology can be used successfully to assist their learning. Our most successful pupils are confident with using IT so that their learning in other subjects is helped by it; they can search quickly and safely, represent it in different ways, use it to inform and entertain others, and ultimately be ready to understand how it can be useful for them in the next stage of their learning. We recognise the enjoyment that can be had and always seek to try new things – both children and staff – to help make learning (and the way we can present this) fun!	