

Computing Golden Threads

Proverbs 22:6 Train a child in the way they should go and when they are old they shall not depart from it.

Computing is an ever-growing subject which has links across all areas of learning. We understand that as our children move through primary school, high school and into the world of work, computing will be a prevalent and important aspect of their lives. Through our computing curriculum, we aim to give our pupils the life-skills that will enable them to embrace and utilise new technology in a socially responsible and safe way. We want our pupils to be aware of the career opportunities that computing offers in the 21st century and to become proficient users of computing technologies, deriving enjoyment from their activities. We want the use of technology to support learning across the curriculum and to ensure that our curriculum is accessible to every child.

Golden Threads These Golden threads apply across all year groups. Their application is alongside the national curriculum objectives.			
Problem Solving Breaking down complex problems through:	Foundations How computers and computer systems	Applications Looking at technology in our lives and the	Implications The skills, knowledge and understanding
 Decomposition: breaking it into a series of small, more manageable 	work & how they are designed and programmed.	purposeful use of existing programs to develop products and solutions.	needed in order to participate fully and safely in an increasingly digital world.
 problems. Pattern Recognition: Examine the smaller problems considering how 	• Exploring how programmes are created and creating our own.	 Using technology to create our own digital content. 	• Find, evaluate and communicate information effectively and safely.
 similar problems have been solved previously Abstraction: Focusing only on the 	 Understanding the connection between instructions and coding. 	 Recognising the different software options available to us. 	 Understanding how to manage and minimise risks on the
important details, while ignoring irrelevant information	 Identifying the skills required for a task set. 	 Sorting through, presenting and evaluating data available to us. 	internet.
 Algorithms: Design simple steps or rules to solve each of the smaller problems. 	 Learning and revising skills using a variety of software. 	 Know how to create and save our own work independently. 	 Knowing who to, and how to, report concerns online.