



The Waterside Way – Computing Curriculum

Intent, Implementation and Impact

INTENT	IMPLEMENTATION	IMPACT
<p>Our school values: EARS – Effort, Attitude, Respect, Safe</p> <p>At Waterside Academy, we provide rich opportunities and experiences that actively promote lifelong skills. Technology is everywhere and will play a pivotal part in students' lives, both today and in their future careers in the digital world. We integrate our school values into the teaching of computing; for instance, children learn to be respectful during online safety lessons and demonstrate effort when grappling with new programs and software, which may initially be challenging to understand. We are dedicated to modelling and educating our pupils on how to use technology positively, responsibly, and safely. E-safety is not a stand-alone lesson; it is intricately woven into the wider curriculum, seamlessly integrated into PSHE lessons, assemblies, and computing classes.</p> <p>Our computing curriculum adheres to the National Curriculum, serving as a foundation for its content. We deliver a high-quality, age-appropriate curriculum aligned with national standards, utilising a specially developed scheme from the National Centre for Computing Education. It has been carefully designed to build progressively on the children's learning as they move through school. Across Key Stage 1 and Key Stage 2, children complete units in the four key domains: computing systems and networks, creating media, programming, and data and information processing. These domains foster cross-curricular links with Art and Design, Science, Mathematics, and Literacy. To facilitate our curriculum delivery, our students have access to a variety of devices, including desktop computers, laptops, and iPads.</p>	<p>We follow the 'Teach Computing' scheme of work which covers all aspects of the National Curriculum. The curriculum can be broken down into 3 strands: computer science, information technology and digital literacy, with the aims of the curriculum reflecting this distinction.</p> <ul style="list-style-type: none"> • This scheme of work gives full coverage of the national curriculum for computing aims to ensure all pupils: • can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation (Computer science) • can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems (Computer science) • can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems (Information technology) • are responsible, competent, confident and creative users of information and communication technology. (Digital literacy) <p>A key part of implementing our computing curriculum is to ensure that safety of our pupils is paramount. We take online safety very seriously and we aim to give children the necessary skills to keep themselves safe online. Children have a right to enjoy childhood online, to access safe online spaces and to benefit from all the opportunities that a connected world can bring them, appropriate to their age and stage. Online safety and responsible use of technology</p>	<p>After each unit of work, teachers will make a judgement on whether pupils have met, exceeded or are working towards the objectives set. This will also provide information for the subject leader and will be submitted for analysis to track and monitor achievement and progress and the impact that this has had. Evidence of progression and achievement will be seen in examples of pupils' work stored on the server or cloud. As a result of effective implementation, pupils will be able to apply their skills and knowledge in other areas of learning. Pupils will be able to share their knowledge of how to be a responsible user of technology through discussion when questioned. They will be prepared for the next stage in their lives, knowing how to be a responsible user of technology in the wider world and most importantly, know where to seek support. Pupils will be familiar with and will discuss their understanding of the three main strands and will know key vocabulary associated with these. Confidence in this subject will also mean that pupils are able to be more independent and competent in life skills such as problem solving and logical thinking.</p>



The Waterside Way – Computing Curriculum

Intent, Implementation and Impact

	are topics covered in computing and PSHE lessons, assemblies and during events such as Safer Internet Day.	
--	--	--