Computing

INTENT

At Whitnash Primary School, our computing curriculum is designed to equip pupils with the skills, knowledge and critical understanding necessary to thrive in an ever-evolving technological world. Our broad and balanced curriculum covers all three strands of computing—**computer science**, **information technology**, and **digital literacy**—in detail. Pupils develop a strong computational understanding of various digital systems and learn how to apply their knowledge through programming. By the time they leave Whitnash Primary School, pupils will be able to design and create programs, systems and a range of digital content, equipping them with skills suitable for the workplaces of the future. Central to our computing curriculum is a firm foundation in online safety, ensuring pupils are prepared to navigate the digital world safely, respectfully and responsibly.

IMPLEMENTATION

At Whitnash Primary School we have designed a curriculum to support pupils progress in line with the National Curriculum. Using a range of platforms to perform a range of computational skills is key in building children computing competence. At Whitnash we have designed a curriculum which pulls units from both Teach Computing (designed by the Department for Education) and Kapow Primary. Children will be taught about the core of computing science and now systems and networks are created, developed and safely used to perform a wide range of technology. New technological advances such as AI will be interwove into taught units and discussions within the classroom.

Children will be taught how to create, organises, store, manipulate and retrieve digital content. Children develop their skills by using a range of hardware such as laptops, cameras and iPads. Children are taught to use a range of software including, Word, PowerPoint, Excel and a range of online platforms such as TinkerCAD and Scratch. The range of software has been carefully selected to ensure children are competent in programmes used in further education and in their future careers.

Each child will be supported to access the internet appropriately and safely to use a variety of search engines and online platforms. All children are taught the importance of online safety and are equipped with a clear safety toolkit (SMART) to ensure pupils know how to stay safe online. Specialist deliver workshops yearly to reinforce the importance of online safety during our internet safety week.
Children are offered a range of additional computing opportunities including the JAM Coding club which is run by a group of specialists, guests to the school and competitions.

IMPACT

By the end of each Key Stage, pupils will know, apply and understand the skills and processes outlined in the national curriculum. Teachers use ongoing assessment to ensure pupils learning is always moving forward and learning is deepened. Teacher use this information to inform planning and adapting future lessons
Our curriculum will enable pupils to leave primary school as a safe, competent computational, creative digital thinker who can adapt to the ever-changing technological world. Children will feel inspired to consider careers in STEM and computing.