

Computing: Intent, Implementation and Impact



Tntent	Tmplementation	Tmpact
Intent At Lady Jane Grey, we believe that a high-quality Computing curriculum, nurturing pupils' creativity and computational thinking, is essential for preparing for them for the technical challenges of the modern World. We therefore aim to establish and maintain high-quality classroom instruction and resources so that children learn to: Image: Imag	Informed by the National Curriculum (2013), and the findings of current research (e.g. Ofsted's research review, 2021), our Computing programme cumulatively builds pupils' knowledge and skills as they progressive through the year-groups where curriculum content increases in range, depth and complexity. We teach Computing in half-termly blocks using the DfE's approved Teach Computing scheme of work which gives teachers a clear sequence of progression from which they can utilise their creativity, subject-knowledge and understanding of their pupils to teach engaging and inspiring lessons. To ensure that the children's schemata of learning are developed and embedded in the their long-term memory, our curriculum embraces the three principles of Bruner's spiral approach: (1) cyclical Learning, (2) increasing depth on each Iteration, and (3) learning by building on prior knowledge. We thus regularly revisit key concepts, and each of our units allows time for practice, retrieval and reinforcement of key ideas and build breadth and depth of knowledge in 4 keys areas: * Computing systems and networks * Creating media * Programming * Data and information This curriculum enables us to develop our pupils' skills and knowledge in what Ofsted's subject research review refers to as the pillars of progression: * Computer science: knowledge of computers and computation. It includes concepts such as data, system architecture, algorithms and programming. * Information technology: the context for how computers are used in society. It includes how they are used in different sectors, as well as the crea	In collaboration with the senior leadership team, we have a dedicated subject leader who monitors the impact of our Computing curriculum through:
 tent, confident and creative users of information and com- munication technology. Navigate the online world equipped with a secure 	 * Digital literacy: the knowledge and skills needed to use computer technology safely, effectively and with discernment. Online safety is embedded throughout our Teach Computing curriculum, ensuring that children learn about safe and responsible online behaviour in a fluid and contextual way. Lessons are reinforced through our own online safety questionnaires as part of our safeguarding provision. Additionally, our Year 6 class participates 	We then track pupils' progress using the Sonar tracking system. This enables us to identify which pupils may need support and which may need challenging further as we continually refine
knowledge of how to remain safe at all times.	in an annual online safety survey to further assess understanding and awareness. Multiple methods are used to regularly assess pupils' progress: from teacher observations and evaluations of projects submitted online using the Google Classroom , dialogue with pupils and assessment tasks such as end- of-year quizzes. Teachers have access to high-quality computing CPD sessions with NCCE to develop and maintain their subject and pedagogical knowledge.	our curriculum.