

Computing Policy



Pendragon Community Primary School

Lead person: Subject Lead – G Groves

Reviewed: May 2022

Ratified by Governors: 17 May 2022

Next Review Due: Autumn 2023

Computing Policy

Intent

At Pendragon Primary School, the curriculum is carefully sequenced to ensure that knowledge and skills in all subjects are acquired, retained and built on, year upon year. It is designed to provide first hand learning experiences and to allow the children to develop interpersonal skills, build resilience, be creative and to be critical thinkers. Our curriculum embraces the community in which it is situated, recognising local history, heritage, geographical and business links and most importantly, the aspirations of all our children.

Page 178 of the National Curriculum 2014 sets out the 'Purpose of study' and the following aims relating to computing:

<https://www.gov.uk/government/publications/national-curriculum-in-england-computing-programmes-of-study/national-curriculum-in-england-computing-programmes-of-study>

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology

Our curriculum in Early Years ensures children learn through rich, practical opportunities linked to all seven aspects of the framework and are underpinned by the three effective characteristics of teaching and learning.

Throughout the teaching of computing we also endeavour to meet the overarching aims of the school (REACH).

Implementation

- The National Curriculum 2014 sets out the core content to be delivered through the teaching of Computing.
- Pendragon Primary School's long-term curriculum plan for Computing gives an overview of Computing coverage from Early Years to Year 6. Teachers use this as the basis for medium and short term planning.
- We endeavour to ensure learning in Computing is an engaging, creative and meaningful experience for all children. Links are made between subjects; and

enrichment activities, such as trips, visitors, special days and weeks are regularly planned as part of our cultural guarantee.

- Discrete Computing lessons are taught regularly or as blocked units of work relating to a particular area of the national curriculum. The application of skills and knowledge learned in one subject to a new context or a different subject is encouraged.
- Access to resources which aid in the acquisition of skills and knowledge.
- Children have access to the hardware (computers, tablets, and programmable equipment) and software that they need to develop knowledge and skills of digital systems and their applications.
- Use of a clear and effective scheme of work that provides coverage in line with the National Curriculum.
- Teaching and learning should facilitate progression across all key stages within the strands of digital literacy, information technology and computer science. Children will have the opportunity to explore and respond to key issues such as digital communication, cyber-bullying, online safety, security, plagiarism and social media.
- Wider Curriculum links and opportunities for the safe use of digital systems are considered in wider curriculum planning.
- The importance of online safety is shown through displays within the learning environment and computer suite.
- Parents are informed when issues relating to online safety arise and further information/support is provided if required.

Impact

Through well thought out curriculum design, our pupils acquire a deep body of learning over time. Opportunities to make interconnected links to prior learning and regular retrieval practice enable them to build up a bank of skills and knowledge and showcase their understanding. The impact of the curriculum is evident in the curriculum products that the children produce. These products not only showcase their learning but provide opportunities to apply that learning in more complex or abstract contexts.

Equal opportunities and Inclusion

See Pendragon Primary's Equality statement in our school brochure

Assessment, Record keeping and reporting

- See Pendragon Primary's assessment policy

Monitoring and evaluation

- The computing subject leader, under supervision of the governors, headteacher and curriculum lead (SLT), is responsible for ongoing monitoring



and evaluation in order to ensure high standards and improved outcomes across the subject.

- A subject action plan is shared and reviewed annually.