Computing Policy

Intent

At Norden, our computing curriculum is designed to enable children to become masters of technology, developing life-skills that will enable them to embrace and utilise new technology in a positive, responsible and safe way. Enabling children to develop their understanding and use of technology through practical and exploratory opportunities using deliberate practice to develop their understanding. We want all pupils to be digitally literate and competent users of technology and through our computer science based lessons we also want them to develop creativity, resilience and problem-solving skills by learning how to be effective 'computational thinkers'.

Our computing curriculum aims to ensure that all pupils have the opportunity to develop a wide range of digital skills, experiences and competencies. The curriculum overview follows eight strands, based around three key areas of computing 'Computer science' 'Information Technology' and 'Digital Literacy'. Key knowledge, understanding and skills are progressively built upon to ensure a clear progression of substantive and disciplinary knowledge within each year group from the EYFS Framework (Understanding the World) to Year 6. With learning outcomes covered within the following eight strands

- Spreadsheets
- Internet and Email
- Art and Design
- Music
- Databases and graphing
- Writing and Presenting
- Communication and network

Through our curriculum we aim to help pupils understand the pivotal role technology plays in their lives and equip them to participate in a rapidly changing digital world. We want our pupils to be able to operate in the 21st century workplace and to have the confidence to pursue the career opportunities that will be open to them through computing.

Implementation
1. Teachers use our agreed scheme, Purple Mash, to deliver the Computing curriculum. The scheme follows the National Curriculum and our bespoke continuity and progression in skills document outlines the substantive and disciplinary knowledge children will gain through each unit of learning within the strands of the Computing Curriculum, from Year 1 – Year 6.
2. Through the Understanding of the World area of the EYFS framework, children are provided with opportunities to develop an understanding of technology across all areas. They explore technology in school and around their home, developing their use of vocabulary.
3. Each unit of learning identifies the composite question with the components to be taught. Short quizzes are used to check children's developing knowledge throughout the units.
4. Children's work is saved into their personal folder within Purple Mash: children's work is monitored and assessed by all teaching staff (class teacher) and subject lead.

5. Children access the Computing suite weekly where the substantive knowledge and disciplinary knowledge can be delivered with IPads and laptops available to apply learnt skills in other curriculum areas.
6. Teachers have high expectations for all pupils, those with SEND are included in lessons where appropriate and tasks are scaffolded accordingly.
7. E-Safety is addressed at the beginning of each term, with an E-Safety unit of learning taught in September, for each year group. E-Safety runs through all lessons with a clear focus on safe use of the internet and social media.
8. Norden's Radio Station is used to promote speaking and listening and writing opportunities outside of the curriculum where children develop confidence and enthusiasm for technology.
9. Norden's 'Green Screen' area, is used to enhance the teaching and learning in all curriculum areas.
10. Appropriate firewalls are in place at all times to ensure that only appropriate internet sites are accessible.
11. In order to ensure that passwords, ICT security and confidentiality are not breached and that all ICT is secure – Use of VEEM software ensures that all data on Norden's server is encrypted and secure.

Impact
With technology playing a crucial part in today's world, the substantive and disciplinary knowledge gained during the teaching and learning of Computing at Norden, will ensure children feel confident and enjoy the experience of exploring all strands of technology; children, therefore, will gain new vocabulary and develop resilience and perseverance as creative thinkers. Children will leave Norden having a strong understanding of where technology fits into their world and how the world changes as research leads to new developments; they will be well prepared to meet the needs of KS3 ICT.

Written by L Coulton and F White, December 2022.
Approved by Governors, December 2022.