Tudor School Computing Policy

Our philosophy and approach

<u>Tudor School Computing Policy</u>

A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, express themselves and develop their ideas through information and communication technology – at a level suitable for the future workplace and as active participants in a digital world. (The National Curriculum, DfE, 2013)

Aims

Tudor School aims to:

- embrace and respond to new technologies
- involve and support all staff in the teaching of Computing
- help pupils to develop and consolidate their knowledge, skills and understanding in Computing
- implement Computing across the Curriculum
- use Computing effectively to raise pupils' achievement across all curriculum areas

Roles and responsibilities including management of the subject

The subject leader will monitor delivery of the scheme of work to ensure breadth, balance and progression in the Computing curriculum and to facilitate in our shared goal of raising children's achievement. The subject leader will carry out audits to help identify and respond to teacher's training needs appropriately. S/he will share skills and information where possible and ensure on-going professional development. S/he will liaise with the technician to solve technical problems and to be advised on future improvements.

Teaching and learning styles

At Tudor we place a strong emphasis on the right of all children to a broad and balanced curriculum, which meets their individual needs. We also feel that learning is most effective when children are actively engaged in first hand experiences, planning, investigating, evaluating and communicating. To ensure we provide this throughout the Computing curriculum, weekly or equivalent skills lessons will be delivered with a range of cross-curricular opportunities to develop and apply these skills.

Discrete Computing

Teachers will plan and deliver weekly, or equivalent, Computing skills based lessons. Each year group will follow the Hertfordshire scheme of work. It is designed to embrace new technologies and practices and meet statutory changes to the national curriculum. The content is broken down into five strands and further organised into learning themes. This scheme may be supplemented by other schemes to help teach individual lessons.

Cross-curricular Computing

The scheme of work includes many opportunities for the objectives to be taught in a cross curricular context. Also the skills should be used and developed through a variety of cross curricular lessons and contexts. These should be clearly highlighted in planning.

Assessment

Teachers' assessment concentrates on aspects of capability to inform future teaching and learning. Assessment will be supported by independent tasks and recorded annually. Reporting to parents is communicated at the end of each academic year and refers to the achievements and progress of the child.

Inclusion

In line with the Special Education Needs, Equal Opportunities and Inclusion policy, all children will have the right to access the Computing Curriculum. Within all aspects of Computing work teachers will differentiate activities in order to take into account the whole spectrum of needs and capabilities.

eSafety and Acceptable Use Agreements

Please see eSafety and Internet policy.

Resources

We will aim to provide a range of hardware and software resources (including online resources) which allow the children to access and engage with the whole curriculum. The Computing Subject Leader along with other members of staff, and liaison with technicians, will identify future needs and exciting new resources to share with the rest of the staff and children.

An audit of resources mapped to the curriculum can be found on the staff drive – Subjects - Computing.

Copyright and ownership

Teachers are to ensure that their resources comply with copyright and ownership laws and they follow the Computing scheme of work when teaching the children how to comply with these laws.

Monitoring, evaluation and review

Regular informal observations and discussions will take place to ensure high standards and the development of practice. These will also be supplemented by computing skills audits.

The computing subject leader will ensure coverage across the curriculum.