Dunstable Icknield Lower School

Curriculum summary
Subject: Computing

Intent:

Why we teach Computing

The use of information and communication technology is an integral part of the National Curriculum for England and is a key skill for everyday life. At DILS, we understand that a high-quality computing education is essential for pupils to understand modern information and communication technologies (ICT), and for them to use these skills to become responsible, competent, confident and creative participants of an increasingly digital world. Computers, tablets, and a variety of devices can be used to acquire, organise, store, manipulate, interpret, communicate, and present information. At DILS we aim to provide quality hardware and software for the use of everyone in school and a structured and progressive approach to the learning of the skills needed to enable children to use it effectively.

Implementation:

How we teach Computing

Computing is taught following the 'Teach Computing' scheme of work in mixed ability class groups in the classroom. This is a progressive, skills-based scheme of work.
E-safety is an integral part of the computing curriculum and covered by all class teachers throughout the course of the year. E-safety knowledge and understanding is regularly incorporated into lessons for all children rather than being a stand-alone topic. This enables children to develop the skillls to manage their own safety online. (see DILS Online Safety policy)

How we plan for learning

The 'Teach Computing' scheme of work is organised to respond to the aims of the National Curriculum. Wherever possible, activities are linked to enhance the teaching and learning in other subject areas but specific computing skills are taught and developed as outlined in the Computing scheme of work.
Teachers plan for computing using the horizontal and vertical mapping created by the subject leader. This helps give a long-term view of what they will be covering over the school year. In addition to this, teachers also using weekly overviews to highlight what they will be teaching in computing each week. The computing lead works closely with the IT provider for our school in order to ensure that technology and software used in school is up to date and well maintained.

How we assess learning

Teachers observe use of technology by children in school and assess work saved electronically against success criteria and age-related expectations.
Progress for children is recorded termly against National Curriculum expectations.

Impact:

Our expectations for all

In Dunstable Icknield Lower school, we expect:

- Most children will reach the end of year expectations and some will achieve greater depth
- Children will make at least expected progress in computing each year
- Well planned sequences of learning will support children to develop and refine their digital literacy and computing skills

- Children will be confident to use a variety of technology devices
- Children will be able to keep themselves safe online and know when to seek help from an adult.

Our expectations for Year 4

The National Curriculum for computing aims to ensure that all pupils:

- 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.

How we measure impact

The teachers will track progress through observing computing skills and cross referencing these skills to the Computing skills progression map.

How we monitor Computing

Subject leader completes lesson drop-ins, planning checks and collects pupil voice termly to ensure high quality progressive teaching and learning is consistent across the school.

How we report

Teacher shares engagement and progress in computing face to face during parent teacher meetings and in an end of year report.
Teachers will engage with feedback during SLIP staff meetings.
The computing lead meets with the link governor, a report is then written from this meeting to be shared with all governors and the headteacher.