Welbeck Primary School

Computing Policy

Reviewed Summer 2023

Aims and objectives

- Children can understand and apply the principles and concepts of computer science.
- Children are responsible, competent, confident and creative users of information and communication technology.
- Children can evaluate and apply information technology to solve problems.
- Children can use Computing as a learning tool for other subject areas.

Planning

Computing is on-going but is also taught as a discrete subject where whole class lessons will take place, usually to teach a specific skill. Skills will then be applied in subjects across the curriculum.

All classes have a minimum of one timetabled Computing lesson per week. This should be supported through the use of Computing in other subjects.

Medium term planning is provided for each year group with skills progression and links to the new Computing curriculum objectives.

Cross curricular Computing links are evident on the topic and outline planning for each half term.

Curriculum Structure

To help ensure children have the opportunity to develop a wide range of skills, experiences and competencies with technology, the curriculum has been broken down into 8 key areas, with the core principles permeating through each area.

Using a computer- *mouse skills, typing etc*

Using the internet - *Researching, finding information etc...*

Communicating and Collaborating On-line- *E-mails, Collaborative working, Video Conferencing etc...*

Creating and Publishing- *Anything that involves presenting information in some way using Computing- word processing, presentations, blogging, websites etc...*

Digital Media- *Photo editing and image manipulation, video and video editing, audio recording and editing and animation (some animation can also be programming)*

Programming and Control- *making something 'happen' using Computing (control, movement etc)*

Modelling and Simulations- *Representing real life situations, scenarios or items on the computer.*

Using Data- *Spreadsheets (including using formulas), Databases and any other work which involves either sorting, presenting or manipulating data of some sort.*

The coverage of each area will vary year group by year group, with some areas being covered primarily in KS1 and others primarily in KS2.   The emphasis on Programming increases as children move through Welbeck Primary School.

It is important that technology is used as a day-day element of school life and across all subject areas, therefore if opportunities to use Computing arise which do not fall within the curriculum for each year group they should be taken advantage of.

E-safety is a fundamental element of Computing teaching and technology use at Welbeck Primary School. The school has a separate E-Safety policy, and E-Safety sessions should take place regularly in each year group as part of both Computing and PSHE sessions.

Teaching and Learning

The knowledge, understanding and skills of Computing are taught through all relevant subjects throughout Foundation, Key Stage 1 and Key Stage 2.

Computing should encompass the following points;

- The progressive development of pupils' skills, knowledge and understanding of Computing.
- The breadth of Computing applications across the curriculum.
- To prepare pupils for the world of work ensuring personal safety and digital literacy.

Computing is taught to all children, whatever their ability and individual needs. Computing forms part of the school curriculum policy to provide a broad and balanced education to all children. Through our Computing teaching we provide learning opportunities that enables all pupils to make good progress. We strive hard to meet the needs of those pupils with special educational needs, those with disabilities, those with special gifts and talents, and those learning English as an additional language.

Monitoring and Evaluation

Computing will be monitored by the Computing subject leader as part of the school programme for monitoring the whole curriculum. This will be based on the annual Action Plan and Review. There is a full time Computing technician who monitors equipment, researches and orders new resources and manages the school website.

Computing will be regularly reviewed by the subject leader and the Action Plan will detail developments for each year.

Assessment opportunities

Teachers will assess children's work in Computing by making informal judgements during lessons. On completion of a piece of work, the teacher assesses the work, and uses this assessment to plan for future learning. Written or verbal feedback is given to the child to help guide his / her progress. Older children are encouraged to make judgements about how they can improve their work.

Resources

The following resources are available for whole class Computing lessons and for use in all subjects.

Mobile trolley containing 32 laptops for use in the classrooms.
45 iPads in main school and 8 iPads in Foundation Stage

15 digital cameras.	15 digi-blue cameras.
1 large SLR camera	14 staff iPads
1 Dash and Dot Robot Pack	4 Voice recorders
8 Computer microphones	1 Green Screen kit
2 digital video cameras	15 styluses for iPads
5 iPad mounts	6 Bee-bots
1 Lego We-Do	40 headphones
4 Light Pads	

A full list of resources can be found in the Computing inventory record.