



Curriculum Overview for ICT and Computing ~ December 2019

Intent

At Birkwood Primary School, we believe children are entitled to a broad, balanced and deep curriculum which is inspiring and engaging. Our intent is to provide a range of learning opportunities that help to prepare learners for life in modern, and future, Britain. Our curriculum does this by encouraging children to be responsible, respectful, active citizens who contribute positively to school and the wider community.

Our curriculum has been structured so that all of our children, particularly the most disadvantaged, are competent and confident in their independent use of ICT, so they can communicate, be safe and apply their skills to current and emerging technologies. Through ICT, we aim for our children to be confident when using a range of different technologies and in a variety of different skills including, computing, programming, e-safety and the use of a range of media. We review our curriculum regularly to ensure it meets their needs and that of our local community, whilst preparing them for the next stage in their education.

Implementation

Our curriculum is delivered through the PurpleMash scheme of work (see the attached overviews). The topics are engaging and allow children the opportunity to develop independent learning through both disciplinary and substantive knowledge. Our curriculum is rich in technical, aspirational vocabulary and allows all learners to engage and contribute positively, whilst developing their linguistic skills. Language development is at the heart of our curriculum.

As Birkwood Primary School is an **'Open Futures Flagship'** school, all classes complete a termly Film It project. These opportunities not only raise standards, but also develop transferable skills which they can use throughout their education and in later life.

The safety of our children is paramount, both in the 'real' world and in the 'virtual' world. Teachers regularly link computing lessons to e-safety; there are half termly assemblies for all children and the school takes part in the annual 'Safer Internet Day'.

Equipment and provision to support 'Implementation':

- Designated ICT suite with iDesk solutions (30 computers in total, with headphones) to enable skills teaching
- ICT suite is timetabled so each class has access at least once a week
- ICT areas in four key stage 2 classrooms
- Designated ICT suite in FS2 and 1 with colour coded key boards for early learners
- Two iPad trollies, each containing a class-set of iPads, for use across school
- Technical support from Code Green, including weekly visits from a technician
- Regular audits of equipment to ensure technology is up-to-date.

Impact

The majority of children at Birkwood Primary school make outstanding progress, not only academically but personally, socially and emotionally. We instil a lifelong love of learning in our children and equip them with the skills and attributes they need to achieve. We are very proud of the opportunities that we provide for our children and the community we serve.

Digital Literacy

We aim for our children to be able to apply technologies to every day uses, i.e. Film It, word processing, photography, search engines etc. These skills are linked and taught in other subjects, allowing children to develop their knowledge independently and through real-life contexts.

Computing

We aim for our children to understand the different elements of programming, using simple instructions for KS1 and becoming increasingly more complex as they move through the school. This is taught using a range of programs on PurpleMash and mainly '2Code'.

E-Safety

We aim for our children to be aware of the dangers and risks that the internet and emerging technologies pose, as well as having the ability to keep themselves safe, both inside and outside of school.

Assessment of computing takes place twice in a year so that assessment data can inform planning and next steps; we feel the curriculum at Birkwood Primary School inspires all involved to be **'the best that they can be.'**

Summary Outcomes

- To ensure that everyone is celebrating Computing and teaching it effectively across the school.
- To give teachers confidence in Computing through enhanced subject knowledge and, in doing so, create consistency and quality across school.
- To ensure the children build on prior knowledge and follow a logical progression of skills.
- Teachers assess children's knowledge, understanding and skills in Computing by making ongoing observations of the children working during lessons.
- Children are also encouraged to be critical of their own work, debugging programs and highlighting their own next steps.
- Twice a year, foundation subject assessment grids are completed by class teachers and evaluated by the subject leader.
- Lessons and activities are planned to include all children by using a range of approaches. This includes: questioning, use of equipment, and mixed ability grouping to enable children to offer peer support. Lessons are planned to facilitate the best possible outcomes for all children.
- Subject leaders and all staff are determined that all children have a secure understanding of E-Safety, and are confident in applying technologies and computer programming.

Areas for Action

To embed knowledge and understanding in: Digital Literacy, Computing and E-Safety
To ensure all elements of the scheme of work are taught throughout school, meeting the requirements of the National Curriculum