

Intent

The Computing National Curriculum aims to ensure all children:

- 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.

At Burrsville we are committed to preparing pupils for the challenges and opportunities offered by a world where work and leisure activities are rapidly being transformed by technological change. We are doing this by using the curriculum of Teach Computing which covers computer science, digital literacy and information technology.

Implementation

At Burrsville Infant Academy we follow the Teach Computing curriculum which has been created by subject experts using the latest pedagogical research and teacher feedback and built around an innovative progression framework where computing content has been organised into interconnected networks called learning graphs.

Each lesson follows the same format beginning with an introduction where the lesson objective is shared, and the children have the opportunity to discuss their thoughts and ideas. Then lesson then comprises of activity 1 and activity 2 where the children practically explore the lesson objective for themselves putting into practice what has been modelled to them. The lesson then moves onto the plenary which allows the class to regroup to review and consolidate the learning taking place in the lesson where children can reflect on key concepts, discuss their understanding and articulate what they have learnt. Each lesson ends with 'This time, next time' which revisits the current lessons learning objective and what the children will be moving onto the next lesson to prepare them.

Floor books are used in each classroom to record the children's learning and progress in computing, this allows children to access their prior learning and aid their articulation of what they have previously been learning in computing. These books are updated during each lesson with photographs, quotes and examples of the children's work. Floor books allow children to retrieve prior learning which activates their existing scheme which enables them to build upon their knowledge and skills.



Computing Curriculum

Impact

During each lesson the children are formatively assessed which is identified in each lesson plan and ensures any misconceptions are addressed and rectified immediately. These assessments provide teachers the opportunity to adapt activities to meet individual needs of children. At the beginning of each lesson the learning objective and success criteria are shared with the children to provide them with the opportunity to self-evaluate their understanding and provides a time to reflect on previous learning. This also allows teachers to gauge children's confidence in which they can then adapt the lesson accordingly.