Computing Curriculum

Purpose of study

At Newbold School we recognise that equipping children with a high-quality computing education will enable them to use computational thinking and creativity to understand and change the world. Computer science forms the backbone, in which children 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 children become digitally literate - able to use, and express themselves and develop their ideas through information and communication technology - as active participants in a digital world.

Computing curriculum:

We follow the national curriculum for Computing at Newbold School using the Teach Computing scheme of work.

"*The units for key stages 1 and 2 are based on a spiral curriculum. This means that each of the themes is revisited regularly (at least once in each year group), and pupils revisit each theme through a new unit that consolidates and builds on prior learning within that theme. This style of curriculum design reduces the amount of knowledge lost through forgetting, as topics are revisited yearly. It also ensures that connections are made even if different teachers are teaching the units within a theme in consecutive years*." (Teach Computing; NCCE).

Physical technology is used in our lessons wherever possible.

As part of the Computing curriculum, children are taught how to:

- Log on, navigate and use technology
- Research and understand the importance of verifying news and the validity of websites
- Be safe online and understand what to do in e-safety situations
- Program and debug
- Plan, design and create
- Word process

IT Equipment:

At Newbold School we have 20 Chromebooks available for class use, each child has their own login and password to ensure that data is protected. We also have a small set of BeeBots for use with younger children. All classes have SMART boards. Internet access is wireless and available throughout the main building.

E-safety:

E-safety is of utmost importance at Newbold School. Staff and students are regularly updated on the e-safety policies, which in turn is reviewed yearly by the e-safety managers. E-safety is encompassed within each unit of the Teach Computing framework linked directly to individual topics as needed; but in addition Digital Wellbeing forms a main strand of the PSHE curriculum where it is taught discretely. For more information relating to Computing and e-safety please go to our policies section of our website.