



Computing Policy

Aims

Uplands Manor Primary School believes that every child should have the right to a curriculum that supports children in achieving to the very best of their abilities. The school understands the immense value technology plays in supporting the Computing and whole school curriculum as well as the children's day to day life.

Uplands Manor believes that technology can provide: enhanced collaborative learning opportunities; better engagement of children; easier access to rich content and support the needs of all children.

Our aims:

- Provide an exciting, rich, relevant and challenging Computing curriculum for all children.
- Enthuse and equip children with the capability to use technology throughout their lives.
- Instill critical thinking, reflective learning and a 'can do' attitude for all children, particularly when engaging with technology and its associated resources
- Teach children to become responsible, respectful and competent users of data, information and communication technology.
- Equip children with skills, strategies and knowledge that will enable them to reap the benefits of the online world, whilst being able to minimise risk to themselves or others.
- Use technology imaginatively and creatively to inspire and engage all children.

Teaching and Learning Curriculum

As the aims of Computing and ICT are to equip children with the skills necessary to use technology to become independent learners. The curriculum used supports our teachers in delivering fun and engaging lessons which help to allow all children to achieve their full potential. The Computing and Online Safety Scheme of Work (Espresso Coding & Rising Stars) meets the requirements of the National Curriculum objectives for this subject. It allows all children to explore coding and apply ICT skills. Furthermore, it provides excellent supporting material for less confident teachers.

Early Years

Uplands Manor aims to provide children with a broad, play-based experience of Computing in a range of contexts.

- Early Years learning environments should feature ICT scenarios based on experiences on the real world, such as in role-play.
- Children gain confidence, control and language skills through opportunities to 'paint' on the interactive board/devices or control remotely operated toys.
- Use recording devices to support children in the development of their communication skills. This is especially useful for children who have English as an additional language.

Key Stage 1

- Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following a sequence of instructions.
- Write and test simple programs.
- Use logical reasoning to predict the behaviour of simple programs.
- Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school.

Key Stage 2

- Design and write programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
- Use sequence, selection, and repetition in programs; work with variables and various forms of input and output; generate appropriate inputs and predicted outputs to test programs.
- Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.
- Use search engines effectively; evaluate digital content; respect individuals and intellectual property; use technology responsibly, securely and safely.

Whole School

- A relevant up-to-date Online safety curriculum which is progressive from Early Years to the end of Year 6.
- Opportunities to use technology through other curriculum subjects.
- Through home/school links and communication, parents are kept up to date with relevant online safety matters.
- Uplands Manor Online Safety Policy clearly states how monitoring of online safety is undertaken.
- Filtering and monitoring systems are in place for online access.

Inclusion

Uplands Manor aims to enable all children to achieve their full potential. This includes children of all abilities, social and cultural backgrounds, those with disabilities, EAL speakers and SEND statemented and non-statemented.

There are many opportunities which allow children with SEND and disabilities to access further learning through the use of technology. Additional access to technology is provided throughout the school day.

Assessment

Teachers will assess the children's learning in ICT and Computing through observation and outcomes of lessons. Children's outcomes will be saved through Espresso Coding. At the end of each term, teachers will make a judgement on each child in relation to the band statements for coding and online safety (Target Tracker). This information is then passed on each year to the next teacher.

Resources

A range of resources is available to support delivery of the Computing and ICT curriculum.
This includes:

Hardware

- Facilities for printing
- iPads
- Laptops
- Green Screen
- Beebots

Software

- Microsoft Office
- Range of Apps to support all areas of the curriculum (iPads)
- GarageBand
- Green Screen Software (Doink)
- iMovie
- Discovery Education (Espresso) & Espresso Coding