

Computing Policy

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Intent

At Churchwood Primary Academy we value the contribution that technology can make for the benefit of all pupils, staff, parents, governors and our wider community. We strive to provide safe opportunities in all subjects to motivate and inspire pupils and raise standards across the curriculum. Everyone in our school community will become lifelong learners equipped to meet developing technology with confidence, enthusiasm and the skills that will prepare them for a future in an ever-changing world.

We believe that technology can provide enhanced collaborative learning opportunities; better engagement of pupils, easier access to rich content, support conceptual understanding of new concepts and can support the needs of all our pupils.

Our aims:

- To enable our staff and pupils to become competent, confident and independent users of technology – to further enhance their reading, writing and mathematical skills.
- To provide pupils with an exciting, rich, relevant and challenging Computing curriculum for all pupils.
- To develop a creative and cross-curricular approach to the teaching and learning of Computing.
- To promote safe and sensible use of technology through a dedicated e-safety curriculum.
- To use new technologies to enable good quality teaching and learning to take place.
- To ensure appropriate and equal access to technology for all children regardless of age, gender, ethnicity or ability.
- To commit to the Continuous Professional Development of Computing.
- To ensure our pupils take advantage of the ever quickening pace of technological change.
- To provide pupils with an understanding of the role technology plays in everyday life at present and its importance in the future.
- To give children opportunities to access the Computing Curriculum through home-school links.
- To exceed the minimum government recommended/statutory guidance for programmes of study for Computing and other related legislative guidance (online safety).

Safeguarding: Online safety

Online safety as a high profile at Churchwood Primary Academy for all stakeholders. We ensure the profile is maintained and that pupil needs are met by the following:

- A relevant up-to-date online safety curriculum which is progressive from Early Years to the end of Year 6.

- A curriculum that is threaded throughout other curriculums and embedded in the day-to-day lives of our pupils.
- Training for staff and Local Board members which is relevant to their needs and ultimately positively impacts on the pupils.
- Scheduled pupil voice sessions and learning walks steer changes and inform training needs.
- Through our home/school links and communication channels, parents are kept up to date with relevant online safety matters, policies and agreements. They know who to contact at school if they have concerns.
- Pupils, staff and parents have Acceptable Use Policies which are signed and copies freely available.
- Pupils to follow the 'SMART' message for keeping safe online. The SMART message will be shown on all laptops used by pupils and be displayed clearly in classrooms.
- Our online safety policy (part of our safeguarding policy) clearly states how monitoring of online safety is undertaken and any incidents/infringements to it are dealt with.
- Filtering and monitoring systems for all our online access.
- Data policies which stipulate how we keep confidential information secure.

Inclusion

At Churchwood, we aim to enable all children to achieve to their full potential. This includes children of all abilities, social and cultural backgrounds, those with disabilities, EAL speakers and SEN. We place particular emphasis on the flexibility technology brings to allowing pupils to access learning opportunities, particularly pupils with SEN and disabilities. With this in mind, we will ensure additional access to technology is provided throughout the school day and in some cases beyond the school day.

Curriculum

Using the National Curriculum we have developed a knowledge progression for our computing work from reception from Year 6 that supports our teachers in delivering fun and engaging lessons which help to raise standards and allow all pupils to achieve to their full potential. We are confident that our curriculum of work more than adequately meets the national vision for Computing.

Implementation

- Pupils in Years 1-6 receive a minimum of one hour discrete computing subject teaching and learning per week.
- Teachers are to follow the curriculum map and use the Purple Mash scheme of work.
- Teachers and pupils benefit from the use of the Purple Mash 2Code programme, which gives access to a wide range of resources for the teaching of coding as well as the use of Bee bots in younger years.
- Teachers ensure the teaching of Computing is evident within all areas of the curriculum following a topic-based approach and creating cross-curricular links.
- Children in Nursery and Reception have access to a bank of iPads. Laptops can also be used as required.

Early Years

Pupils in the Early Years Foundation Stage use computers and other technologies as part of their everyday provision with the Characteristics of Learning informing the planned provision. Our Knowledge Progression identifies the key learning in the different area of Computer Science, Information Technology and Digital Literacy. Our Curriculum Computing Curriculum Protocol gives guidance on the types of activities that may be used in the provision to meet those key areas. Children recognise that a range of technology is used in everyday life. They engage purposefully and create with: text, video, photographs, digital images, sound with video, photographs, digital images, music sound recordings, simulations and control devices like floor robots. They also learn social skills, rules and responsible use when using devices and the internet

Curriculum for Years One to Six

At the Churchwood Primary Academy we follow our Knowledge Progression which details the progressive substantive and disciplinary knowledge to be learned in the different areas of Computing and e-safety from Year One to Year 6. These areas are:

Computer Science

- Algorithms
- Inputs and outputs, including simulations
- Debugging programs
- Predicting
- Networks

Information Technology

- Saving electronic work, copy paste, click, drag, clipart & images
- Text & combined publishing
- Paint, drawing, design, images
- Sound and video
- Spreadsheets & graphs

Digital Literacy

- Technology
- Privacy & security
- Health well-being and lifestyle
- Copyright and ownership
- Self-image and identity
- Online bullying
- Online relationships
- Online reputation
- Data, databases sorting, searching
- Internet & Searches
- Email
- Managing online information

Supplementary to this is the Computing Protocol which gives guidance on all aspects of teaching computing at our academy. Pupils use a range of technology to support the units of learning. This may include:

- Laptops
- Tablets
- iPads
- Beebots / Roamers

All pupils in Y1-Y6 receive a minimum of one hour discrete computing subject teaching and learning per week (or the equivalent). In addition, the application of information technology is an integral part of our whole curriculum, recognising that we are preparing pupils to work and play in a digital world.

In learning and teaching across the curriculum

- There are Interactive Whiteboards (IWBs) and Digital Visualisers in every classroom, used throughout the day for whole class teaching in all subjects. Whiteboards are also used within group activities by teachers or TAs or for collaborative activities by pupils. Whiteboards are also regularly used by pupils themselves to participate in the class or group lesson, or demonstrate what they have learned or to display work they have done.
- The IWB is connected to a main classroom computer which is on the school network with its shared work area and access to the wider internet.
- Classes may book the laptops for additional sessions during the week to carry out Computing-based work in other subject areas.
- Staff and pupils regularly and confidently access links to online resources.
- Teaching and support staff are confident selecting programs and make extensive use of resources for pupil to use from the school network and online.
- The intention to use such resources appears in teachers' planning and is marked clearly. In particular the school makes extensive use, for both classroom and homework activities, of Mathletics, LexiaCore5 and Purple Mash.
- The School subscribes to a range of websites for use in development children's skills across the curriculum. These are used in day to day classwork and as a form of homework and intervention. Websites currently subscribed to include: Class Dojo, Purple Mash, LexiaCore5, Accelerated Reader, Espresso, Mathletics, Charranga and Early Start French.

Developing and monitoring the Computing curriculum

The Principal and Computing Subject Leader are responsible for ensuring there is a Computing policy and that it is implemented. The Computing Subject Leader is responsible for mapping the Scheme of Work. The Computing Subject Leader will also be involved in monitoring class teachers' curriculum planning and teaching through the subject leader management trail. The Computing Subject Leader is also responsible for providing CPD to staff where the need arises.

Monitoring

The Computing Subject Leader monitors the provision of computing. Feedback is given in a timely manner to improve each teacher's individual practice. Support, training and coaching is provided as needed. The Computing Subject Leader reports on the quality of provision and attainment to the Principal.

Home Links

The children have access to a wide variety of resources that enable them to continue their learning of Computing and technology at home. Currently the children have access to: Espresso, Purple Mash, Mathletics, LexiaCore5 and Class Dojo. Each class teacher has a Class Dojo account which are used for communicating important messages and celebrating pupil achievement.

This Policy

The Computing subject Leader and the Principal will be responsible for ensuring the effective monitoring, evaluation and review of this policy.

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