





Chapel Street
Community Primary School

Computing Policy

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Review frequency	Annual	
Date of next review	July 2023	
Signed by Headteacher	Ella Hughes	
Signed by Chair of Governors	Tim Wheeler	

Document control	
Policy title	Computing Policy
Last reviewed	New policy created in line with whole school curriculum review
Written by	Dominic Walsh (Computing Co-ordinator)
Approved by	Debbie Burton (Quality of Education Governor)
Approval date	4 th July 2022
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Staff consultation	N/A
Review frequency	Triennial
Date of next review	July 2025
Status	Non-statutory
Published on website	Yes
Main amendments as part of this review / update	<ul style="list-style-type: none"> • New policy written in line with the whole school Curriculum review.
Links to statutory guidance	<ul style="list-style-type: none"> • Statutory framework for the early years foundation stage: Setting the standards for learning, development and care for children from birth to five • The National Curriculum in England – Key Stages 1 and 2
Links to non-statutory guidance	<ul style="list-style-type: none"> • The Key – model policy advice • https://www.oxford-grove.bolton.sch.uk/information/curriculum/ Model policy
Other documents / resources used in the writing of this policy	<ul style="list-style-type: none"> • N/A
Related policies	<ul style="list-style-type: none"> • Teaching and Learning Policy • Feedback and Marking Policy • Assessment Policy • SEND policy



Vision & Missions statement

Making a difference and achieving excellence for every child.

School values

- Growth – *We go beyond what is expected to continually improve standards and deliver ambitious outcomes.*
- Respect – *We do the right thing for our children.*
- Inclusion – *We care about people as individuals.*

You can find out more about school on our website: <https://www.chapelstreetprimary.co.uk/>

If you have any questions about the content of this policy:

- If you are a member of staff – speak with your line manager or a member of the leadership team
- If you are a parent / carer – contact the school office on 0161 224 1269
- If you are another interested party – contact the school office on 0161 224 1269

Justification

At Chapel Street Community Primary School, we are committed to making a difference and achieving excellence for every child. Our aim is to facilitate an exciting, diverse and holistic computing curriculum which aims to provide the best outcomes for all children. In order to fulfil this mission statement, we will provide a high-quality Computing education that equips pupils to use computational thinking and creativity to understand and change the world as technology continually evolves and develops. We understand that children will enter the school with wide and varying experiences of Computing. We as a school acknowledge those experiences and look to develop both skills and knowledge through a programme of focussed learning opportunities.

Intent:

Our ambition is to provide a high quality Computing curriculum that:

- Equips pupils to use computational thinking and creativity as technology continually evolves
 - Ensures pupils have the knowledge and skills to stay safe online
 - Builds on our children's starting points and prior knowledge of 'technology' to ensure that they know more, remember more and can apply more to reach their full potential
1. To build on this knowledge and understanding so that pupils are equipped to use information technology to create programs, systems and a range of content.
 2. To ensure that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.
 3. To ensure that pupils can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation, and can analyse problems in computational terms.
 4. To enable pupils to evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
 5. To ensure that pupils become responsible, competent, confident and creative users of information and communication technology.

Implementation:

1. Pupils will be taught to understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
2. Pupils should be taught to create and debug simple programs in KS1 and design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
3. Pupils will be taught to use logical reasoning to predict the behaviour of simple programs and in KS2 they will be taught how to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.

4. Pupils will learn how to use technology purposefully to create, organise, store, manipulate and retrieve digital content.
5. Pupils will be taught how to recognise common uses of information technology beyond school understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.
6. Pupils will be taught how to use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.
7. Pupils will learn how to select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
8. Pupils will work in a positive, challenging learning environment where ideas are shared, and all contributions are valued and used as learning opportunities.
9. Pupils will understand how to keep themselves safe online and how to treat others with respect.
10. Pupils will have a deep understanding of the underpinning knowledge and behaviours to be a safe digital citizen.
11. Pupils will understand the range of harms and risks online, and understand how being online can affect their wellbeing.

Impact

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study. Pupils will know how to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. Pupils will recognise acceptable and unacceptable behaviour, and identify a range of ways to report concerns about content and contact.

Planning / Curriculum Content

The long term Computing curriculum and Program of Study adopted by the school covers all areas of activity outlined in the Computing National Curriculum 2014. In each year group, progressive aspects of the curriculum are taught, revisiting strands in order to develop and reinforce knowledge, understanding and skills and develop positive attitudes towards Computing and technology. Planning ensure coverage of the required attainment areas specified in the National Curriculum 2014 and the school has a range of quality support materials to support the delivery of these objectives. Short term planning is structured to include the Learning objective, main teaching input, tasks and activities, resources, cross-curricular links, plenary and evaluation. Evaluations of children's learning within the lesson will be taken into account for future planning and assessment

Recording and Assessment

Assessment of children's work is through teacher assessment which is clearly stated in teachers' planning.

Resources

All PC's and laptops are networked and provide quality access to the Internet.

All classrooms have at least one networked PC and Interactive board to promote Computing and aid delivery of all curriculum subjects.

There are 7 additional PCs in the library.

The school also has three banks of 30 laptops. Each bank of laptops is available to book through the whole school diary situated in the staff room.

In addition to resources already stated, a set of software is available on the network, backed by a centrally stored resource of cross-curricular material and a set of software relevant to specific year groups stored in each classroom. An annual audit of software is undertaken.

Online resources available to support children in Computing and cross-curricular learning are:

- * Purple Mash

- * MyMaths

- * School blogs

- * Times Table Rockstars

- * Microsoft Teams and Microsoft Sway

- * IXL Grammar (KS2 only)

- * IXL Maths (KS2 only)

- * Learning by Questions (KS2 only)

Other items of hardware and equipment are available for use including green screen, programmable robots (BeeBots/BlueBots), control and monitoring devices, digital microscopes, scientific Log Boxes and sound recorders are available in the Computing cupboard.

Professional Development

All staff are encouraged to use computers, prepare resources and develop personal competence and confidence in the use of Computing. All staff are given regular training through staff meetings in the use of Computing and software to help them develop their skill and confidence. Training videos are held online so that teachers can use them to refresh or develop computing skills and knowledge. The Computing subject leader is available to provide individual guidance and support as required.

SEN and Equal Opportunity

Chapel Street Community Primary School aims to provide all children with a differentiated curriculum that meets their particular needs. Computer equipment can be a valuable tool for aiding pupils with difficulties in learning, or who need additional motivation to practice basic skills. Specific software is made available to children across the curriculum to encourage the development of these basic skills in reading, writing and numeracy. Pupils of high ability may also be extended through the use of programs which offer challenge and opportunities for investigation.

Children with English as an Additional Language including International New Arrivals

We will aim to ensure that children who have English as an additional language or who are international new arrivals will be given extra support when carrying out Computing tasks as necessary to enable them to gain the understanding and knowledge set out in the Programmes of Study

Health and Safety

Eyestrain and other problems can be caused by prolonged use of computers and tablets. Therefore, whenever possible, a time limit will be set for the use of computers or tablets within any session: - 50 minutes in KS1 and 60 minutes in KS2.

All computers and peripheral devices will be set securely on computer trolleys or tables with leads and wiring placed towards walls, cupboards or display screens so that they are not exposed or trailing.

Electrical equipment will be switched on or off at the mains by staff.

In the event that a computer needs to be moved, staff will move trolleys as required. Children will be taught about the safe working, logging on and loading of programs.

Where children are handling laptops and tablets, they will be taught to hold the equipment with two hands at all times and to only handle the equipment when absolutely necessary.