

COMPUTING POLICY

South Walney Infant and Nursery School



Approved by:	Board of Gobs	Date: Autumn 2024
Last reviewed on:	Summer 2022	
Next review due by:	Summer 2026	

Introduction

- This document is a statement of the aims, principles and strategies for teaching and learning of Computing at South Walney Infant and Nursery School.
- This policy was revised in the Summer Term 2022.
- It will be reviewed every 2 years in the Summer term by staff and Governors.

School Rationale

Computing pervades all aspects of everyday life and children need to learn how to use these resources safely and to benefit their lives. As well as learning the essential skills needed to utilise devices, the children need to be able to use technology in order to fully access all areas of the curriculum. Computing has deep links with mathematics, science, design and technology, and supports us in understanding the processes of coding. We use the Computing Curriculum to teach our pupils the principles of information and computation, how digital systems work and how to put this knowledge to use through programming. We teach digital modelling and design to help children learn how to navigate their way through simulated scenarios. The use of iPads are being embedded in our school to support, develop and enhance all areas of the curriculum. We teach our children how to capture both audio and visual communications using various digital media. All of these skills can be used throughout life in work, leisure and life-long learning. We also use interactive screens in all of the classrooms and the children learn how to use them as an interactive part of the daily curriculum.

Aims

Through the teaching of Computing we aim:

- to produce learners who are confident and skilled users of I.T.
- to promote enjoyment and enthusiasm for learning through practical activity, exploration and discussion.
- to promote confidence and competence with a variety of types of computing equipment; iPads and interactive screens to laptops (in year two) and beebots.
- to develop the ability to use computing equipment constructively and creatively in all areas of the curriculum.
- to develop the ability to analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems.
- to develop a practical understanding of the ways in which information can be handled using a variety of programmes, depending on the purpose.
- to produce learners who understand the importance of computing in everyday life and who are able to use it responsibly and safely.
- To support learners in understanding the benefits and dangers of computing through the teaching of online safety.

We seek to achieve these aims by use of the following strategies:

Strategies

- Computing is planned as a discrete subject area and is embedded in other curriculum subjects.
- We adopt the approach to teaching recommended by the National Curriculum 2014 guidance for Computing.

- Teachers plan across year groups and use devices to teach the various units. These broadly consist of the use of iPads and specific apps, word-processing on laptops and coding/controlling a programmable toy.
- The interactive screens in classrooms, iPad's and apple tv's provide an excellent way of demonstrating skills to a whole class.
- Internet based research, photographs and film can also be shared in this way.
- A laptop and screen in hall provides opportunities for displaying films, photographs and presentations in assemblies and school events.
- iPads inspire creativity and hands-on interactive learning which links to all aspects of the curriculum.
- All teachers have an iPad. Each year group have access to a designated set of iPads which we continue to increase each year.
- The school uses a whole class style of teaching and learning in discrete Computing lessons. This is to enable efficient and effective use of equipment. During these lessons we encourage children to ask questions and become confident in using both hardware and software available to them.
- Children use IT in various lessons throughout the curriculum where it will enhance their learning, as in modelling ideas and methods, finding information, solving problems, communicating ideas and recording their experiences.
- Wherever possible, we encourage the children to use and apply their learning in everyday situations.
- In all classes there are children of differing ability due to access computing devices at home. We recognise this fact and provide suitable learning opportunities for all children by matching the challenge of the task to the ability of the child. We achieve this through pairing children carefully so that each supports the other. Support staff are utilised to support some children and to ensure that work is matched to the needs of individuals.
- Every classroom has an interactive screen, access to iPads and an apple tv or screen sharing app which are used in a planned way to enhance learning.
- Subscription to online learning platforms such as Espresso and Purple Mash provides our school with unique and relevant activities and resources for children in each Key Stage.

Computing curriculum planning

Computing has become a core subject in the National Curriculum 2014, and we are using Education for a Connect World 2020 as the basis for planning and implementing the statutory requirements of the new programme of study for Computing. We carry out the curriculum planning in Computing in three phases (long-term, medium-term and short-term). The programme of study gives a detailed outline of what we teach in the long term, while our yearly teaching programme identifies the key objectives in Computing that we teach in each year.

Our medium-term Computing plans, which are adopted from the New National Curriculum 2014, give details of the main teaching objectives for each term, and define what we teach. They ensure an appropriate balance and distribution of work across each term and across each key stage. These plans also include the differentiated structure of school software and Apps to ensure that children continue to use new and progressive activities. The Subject leader reviews this structure annually to track app use and progression. All long term plans are reviewed by the subject leader and the head teacher.

In the Foundation Stage, IT falls under the area of learning called 'Understanding the world'. The use of simple computing devices is taught through discrete teaching in small groups and also the opportunities and resources provided through the continuous classroom provision. The children will

be able to use various pieces of equipment such as iPads, torches, recordable devices and remote controlled toys.

It is the class teacher who completes the weekly plans for the teaching of IT. These weekly plans list the specific learning objectives for each lesson and give details of how the lessons are to be taught and which software programmes or items of equipment are to be used. The class teacher keeps these individual plans, and the class teacher and subject leader may discuss them on an informal basis. The subject leader will keep copies of the termly Learning Menu for each year group in order to monitor the planning and coverage for Computing.

Each year group have developed long term plans for their delivery of Online Safety which has been developed alongside the use of The Education in a Connected World Document. This framework is designed to equip children for digital life and is separated into six units: self-image and identity, online relationships, online reputation, online bullying, managing online information, health, wellbeing and lifestyle, privacy and security and copyright and ownership. Progression through each year group is defined within this framework from Nursery until year two.

Assessment, Recording and Reporting

- Samples of children's work will be compiled for the purpose of assessment.
- Teachers will keep class records in order to monitor each child's progress in this subject. Teacher assessment will inform planning to ensure individual needs are met.
- Children's progress will be reported to parents on Open Evenings and in their end of year reports.

Resources

We consider computing to include any equipment which allows users to communicate or manipulate information electronically. We will:

- provide the children with iPads to access a wide range of apps and software tools such as the camera facility, microphone and recordable/ camera features.
- Other resources available include laptop, electronically controlled instruments, programmable toys, Tuff-Cams with tripods, Easi-Speak headphones and the schools green screen.
- Encourage the children to be skilled, independent and responsible in their use of these resources.
- Use software appropriate for the delivery of the Computing curriculum, e.g. Espresso, Purple Mash- 2Simple as well as a wide range of Apps and the Internet.

SOUTH WALNEY INFANT AND NURSERY SCHOOL

INTERNET ACCESS POLICY FOR CHILDREN

- **This policy forms part of the school's Computing Policy**

We know that the internet can provide our children with a wonderful learning resource. However, we are aware that we must take every precaution to ensure safe internet access for our children at all times.

This is done through the following measures:

To access all computers staff and Year groups have their own log ins.

- All laptops and computers are connected to the internet and children are taught to access this as appropriate.
- Access will be controlled at all times using filtering software.
- Staff will select sites which will support the learning outcomes planned for children.
- Internet access will be planned to enrich and extend learning activities.
- Children will be supervised at all times when using the internet and emailing.
- Children will be given clear guidance for internet use and only ever allowed to access approved educational sites selected by staff.
- Children will be taught to send and receive emails through our webmail system (from classes within the school and to other schools both nationally and internationally).
- Personal information or photographs will never be sent online without consent.
- The school will work in partnership with the LA, Department of Education and our internet service provider to ensure systems to protect pupils are reviewed and improved as necessary.
- School will provide parents with information and advice with regard to appropriate use of social networking sites, e.g. Twitter.

**** Detailed information about internet access and usage by all other users in school is set out in the E-safety policy. This will include terms of acceptable use for all users, responsibility of stakeholders, e-safety education and training, protocols for reporting internet filtering issues, use of personal devices, etc.**

South Walney Infant & Nursery School is fully committed to safeguarding and promoting the welfare of all its pupils. Every member of staff recognises that safeguarding against radicalisation and extremism is no different to safeguarding against any other vulnerability