



# Computing Policy

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<b>Adopted by Governors</b>	

## Details:

**Review Frequency:** Annually

**Date of last review:** January 2021

**Date of next review:** January 2022

# **Seascape Primary - Computing**

## **1. INTRODUCTION**

The Computing Policy covers the teaching of Computing from Key Stage 1 through to Upper Key Stage 2 at Seascape Primary School.

Seascape Primary school will publish this policy on its official website.

## **2. STATUTORY REQUIREMENTS**

The National Curriculum states:

A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils 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 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.

### **Aims**

The national curriculum for computing aims to ensure that all pupils:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology

## **3. TEACHING OF COMPUTING**

We aim to develop pupils' abilities through specifically developing children's knowledge and understanding in both the classroom and through hands-on practical learning using technical equipment.

At Seascape Primary School we strive for children to have a thirst for learning.

Work completed by children will be recorded through photographs, in floor books and also using student drive on the school system.

#### 4. STRUCTURE

The teaching of Computing will develop knowledge and understanding in the following ways:

- Online Safety (also taught through PSHE)
- Information Technology
- Computer Science
- Digital Literacy

#### 5. PROGRESS LADDER

Teaching staff use the progress ladder to ensure that pupils build on prior learning.

Progression Ladder Computing	
UKS2	I understand the importance of internet safety I can use Kodu I can use photo and video editing tools. I can use a spreadsheet and database to collect and record data I can use different inputs (including sensors) to control a device or onscreen action and predict what will happen. I can securely access a variety of devices and online resources saving work in any relevant places.
LKS2	I understand I need to keep passwords etc private. I can use search technologies effectively I can use Scratch I can use PowerPoint effectively including insert images and audio I can use a data logger to monitor changes and can talk about the information collected. I can add to a database I can recognise an error in a program and debug it. I recognise that an algorithm will help me to sequence more complex programs. I can use Save and Save As on laptops and PCs and rename files when necessary. I can navigate school student drive to save and retrieve files.
KS1	I can explain where to go for help when I am worried about something I have seen online. I can use technology to create and collect information, including photos, video and sound. I can debug a simple programme when something goes wrong. I can give instructions (using forward, backward and turn) and physically follow their instructions when programming Beebots. I can open a document or other file or app on a laptop or PC or app on an Ipad I can develop coordination and motor skills to operate a mouse or roller pad on a laptop or PC. I can use a passcode on a tablet and log in on laptop/PC
EYFS	I can use technology to show my learning. I can make a floor robot move. I can use a QR code (with an image) to go to a website.

## **6. MONITORING AND REVIEWING**

The Computing Subject Leader should be responsible for improving the standards of teaching and learning in their subject. The role is:

- To have an impact on raising standards of attainment for their subject across the whole school.
- To ensure the effective implementation of the Statutory National Curriculum for their subject.
- To monitor their subject across the so they are able to assess individual professional development opportunities and needs.
- To maintain the availability of high quality resources.
- To maintain an overview of current trends and developments within the subject.
- To ensure a regular and effective programme of analysis of children's work sample monitoring is in place.
- To effectively manage any funding designated to their subject.
- To ensure the teaching of their subject is good or better; to coach staff where appropriate in order to raise standards.
- To attend Network Meetings through the Peterlee Partnership as appropriate.
- Training Digital Leaders to support and maintain technology.

## **6. PARENTAL LINKS**

We believe that parents have a fundamental role to play in helping children to learn. We do all we can to inform parents about what and how their children are learning by:

- holding parents' evenings to discuss children's progress.
- providing a half-termly newsletter which gives information on what children are learning.
- sending an annual report to parents in which we explain the progress made by each child and indicate how the child can develop their learning.
- explaining to parents how they can support their children.

We believe that parents have the responsibility to support their children and the school in implementing school policies. We would like parents to:

- do their best to keep their child healthy and fit to attend school and ensure that their child has the best attendance record possible
- ensure that their child is equipped for school for taking part in activities
- inform us if there are matters outside school that are likely to affect a child's performance or behaviour at school
- promote a positive attitude towards school and learning in general.

Mrs Emma Hunter  
January 2021