

What is Computing?

A high-quality computing education equips pupils to understand and change the world through computational thinking. It develops and requires logical thinking and precision. It combines creativity with rigour: pupils apply underlying principles to understand real world systems, and to create purposeful and usable artefacts. More broadly, it provides a lens through which to understand both natural and artificial systems, and has substantial links with the teaching of mathematics, science, and design and technology.

Computing at Summerhill does not only involve the use of a computer. Computing is much more than this! In EYFS, we start teaching Computational Thinking throughout their learning using an unplugged approach. Throughout their time at Summerhill, **all** children will have the opportunity to use a range of technology including:

Programmable toys



iPads



Class Computers



Chromebooks

Computing Curriculum 2022

Our Intent

At Summerhill Infant School, we seek to empower children to be confident individuals ready and inspired by our ever-changing technological world. We acknowledge that technology will continue to grow with us and become an integral part of our futures. Our children and families are within a world where technology is a part of their everyday lives. Our aim is for children to take advantage of the potential technology has to offer in terms of developing as a life-long learner. We see computing as a source of enrichment to an already vivid and creative curriculum. Our computing curriculum aims to equip children to become digitally literate, using technology to create, access and understand a range of content.

Key Stage 1 Objectives:

- ◆ 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 organise, store, manipulate and retrieve data in a range of digital formats.
- ◆ Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school.

Internet Safety

At Summerhill Infant School children use the internet to research topics under close adult supervision in order to practise their ICT skills.



Children's use of the Internet is closely monitored and all Bristol schools only have access to sites that have been through a stringent filtering system. Each term all children are introduced to the idea of Internet Safety through termly lessons which progress through their time from EYFS to Year Two, covering a range of issues such as privacy, chatrooms, facebook and many more. We also celebrate "Safer Internet Day" each year.

If you would like to know more about keeping your children safe online you can visit these websites which have useful information for parents/carers as well as activities for children.

Hector's World



Thinkuknow



Childnet



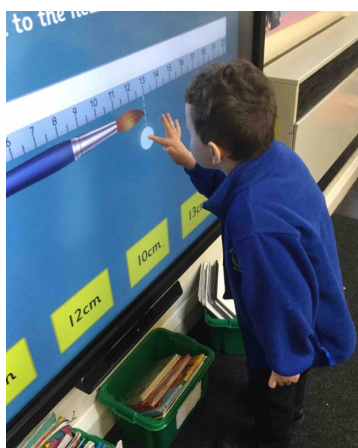
Computing at Summerhill Infant School

At Summerhill Infants, computing is taught both as a discreet subject and, where appropriate, links are made between computing and class topics for cross curricular learning. In computing lessons, children use BeeBots, interactive whiteboards, laptops, iPads or cameras and access a range of software. Online safety is taught throughout the year as part of computing lessons as well as during 'Safer Internet Day.'

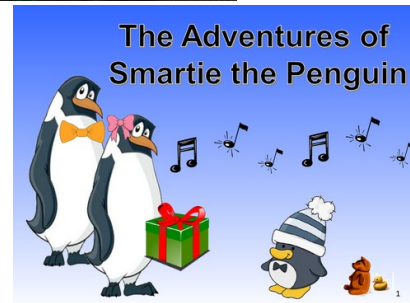
Our curriculum covers elements of technology and computing systems around us, creating digital media, grouping and storing data and information digitally and programming.

All children in KS1 will have the opportunity to learn how to program, through exploring, writing and debugging algorithms.

This will be done by using a range of programmes and a range of technology to show children how making choices and selecting options has an effect on the way an object moves, reacts and changes on a computer screen.



Children have access to technology throughout their day. This enables it to be used as a resource to further develop their learning in all subjects.



Each year we celebrate Safer Internet Day. We take part in lots of interactive activities and learn about the importance of online safety. Smartie the Penguin helps the children understand this topic. You can read the story at:
<https://www.childnet.com/resources/smartie-the-penguin>

For more information please contact the following

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Computing



This leaflet aims to give you a brief overview of computing at Summerhill Infant School.