

Computing



Intent



It is our intent for all children at Southway Junior School to develop as resilient learners and achieve personal success in using a range of technology confidently, competently and safely. In order to achieve this, they will know how to use technology safely, respectfully and responsibly; including keeping personal information private, recognising acceptable / unacceptable behaviour and how to report concerns about content or contact. Working both independently and as part of a team, children will develop the skills required to succeed in an increasingly digital world.

Design, write, and debug programs to accomplish specific goals; working with variables and various forms of input and output.

Develop computational thinking; using logical reasoning to analyse a problem and plan out solutions; and decomposing them into smaller parts.

Use search technologies effectively and be discerning in evaluating digital content.

Understand how computer networks operate and the opportunities they offer for communication and collaboration.

Select use and combine a variety of software on a range of devices to design and create a range of content, including collecting, analysing, evaluating and presenting data and information.

Implementation

Southway Junior School follows the government-funded **Teach Computing** scheme of work which covers the whole primary curriculum with a clear structure of progression building on children's previous knowledge. The scheme is supplemented by the use of Scratch and Lego and Micro: bits when creating computer programs.

Our team of **Digital Leaders** have completed the Childnet course on E Safety and lead assemblies to reinforce important messages taught through the curriculum. They will be trained to support peers who may have concerns regarding E Safety, and, through our partnerships with local secondary schools, provide an excellent insight into current trends enabling staff to target teaching effectively. We also participate in **Internet Safety** day, making good use of yearly themes to raise the profile of different aspects of E Safety.

We take part in **Computer Science Week** every year, during which, parents who work in the world of technology are invited to share their role with the children. This is a fabulous opportunity for pupils to learn more about STEM opportunities and provide inspiration for possible career paths as well as further embedding our links with the community.

Southway's Values



Kindness



Respect



Resilience



Teamwork

Curriculum Overview



| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--------|--|---|--|--|---|--|
| Year 3 | Me & My World Connecting computers UNPLUGGED | Me & My World Algorithm Robots ROBOTS | Invaders & Raiders Sequencing Sounds SCRATCH | Invaders & Raiders Animation iMOTION | Battles & Bangs Data / Pictograms LARC | Battles & Bangs Programming SCRATCH |
| Year 4 | Victorian Towns & Twisted Tales Systems & Networks IPADS | Victorian Towns & Twisted Tales Publishing Media LARC | Mysterious Maya Creating Media LARC | Mysterious Maya Programming A LARC | To Infinity & Beyond Databases LARC | To Infinity & Beyond Programming B SCRATCH |
| Year 5 | Power & Palaces Systems & Networks LARC | Power & Palaces Creating Media IPADS / G Screen | We'll Meet Again Programming A LARC | We'll Meet Again Creating Media IPADS | Sea, Storms and Survival Databases LARC | Sea, Storms and Survival Programming B SCRATCH |
| Year 6 | Frozen in Time Systems & Networks LARC | Frozen in Time Creating Media GOOGLE 'SITES' | Walk like an Egyptian Programming A SCRATCH | Walk like an Egyptian Data and Information EXCEL | Blood, Bones and Body Bits Creating Media TINKERCAD | Blood, Bones and Body Bits Programming B SCRATCH |

Curriculum Resources



LEGO WeDo & Spike

Green Screen

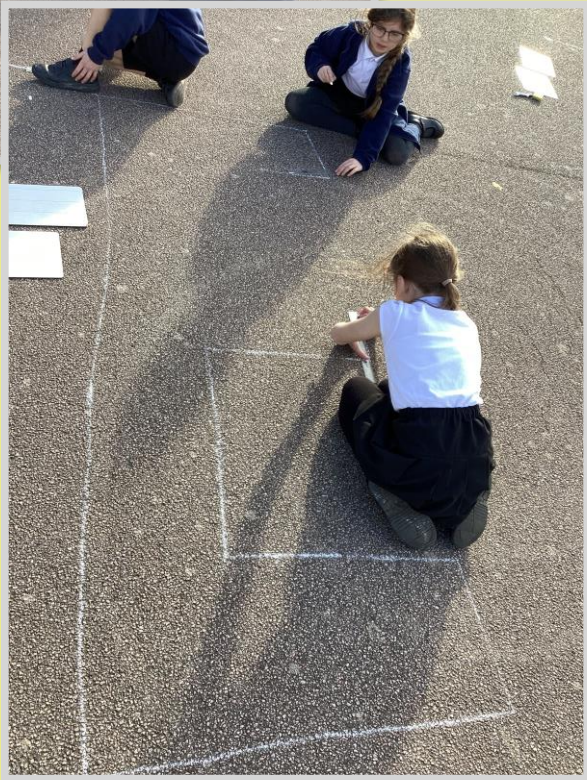
Teach Computing - logo &
detail...

iPads

Standards in Year 3



Unplugged activities

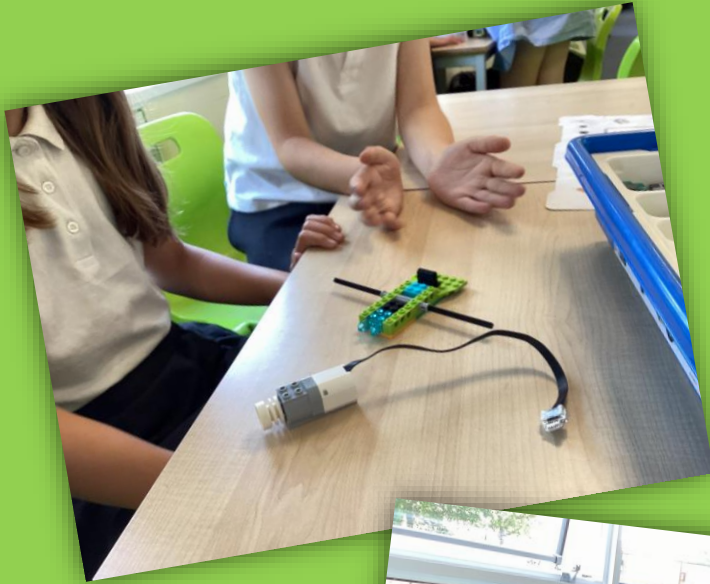


Coding on Scratch



Standards in Year 4

Unplugged
activities



Lego



Designing and
creating their own
invites

Come Read With Dickens

**At 2:30pm-3:00pm Thursday 23rd
Of March At Southway Junior**



**RSVP Let us know if you can
make it**



Standards in Year 5



Unplugged
activities

Micro: bit

Green screen

Standards in Year 6



Unplugged
activities

Web design

Tinkercad

Welcome to the
LARC

Learning And Resource Centre

Pupil Voice

What do you enjoy
most about computing
at Southway?

*'I enjoy using
programming games
like Scratch'.*



Enrichment Opportunities



Internet safety day

Visit secondary schools!

Digital leaders!