

## A message from Mrs Bermon:

Computing is an essential part of life in today's world. At Darlinghurst we teach children the knowledge and skills that we believe will enable them to make sense of and contribute to their world.

### Design and Purpose

At Darlinghurst, we provide intentional and responsible real life computing experiences, particularly focusing on safety and e-literacy. Children will be able to develop key e-skills which they will be able to apply to everyday life, maximising their personal and academic growth and maximise their life opportunities. At Darlinghurst we also provide an unplugged curriculum to allow learners to understand computing concepts before they apply them using digital equipment.

All computing lessons should cover the four areas of the computing curriculum; information technology, digital literacy, computer science and e safety. An additional strand, computational thinking, has been included. This teaches the vital thinking skills and processes necessary for using technology to solve problems and find solutions. E-safety and online safeguarding procedures should be linked through other curriculum subjects such as PHSE and wellbeing.

### Computing Reflections

#### Autumn

This has been an exciting time for computing at Darlinghurst. We have managed to open our computing suite and have been enjoying studying computer science and learning how to code using Scratch. All year groups have completed their computational thinking unit. Each year group studied the main problem solving skills required in computing: decomposition, pattern recognition, abstraction and creating algorithms.

We are now running a Code club for year 6 students. This has been a great success and our coders are already producing some impressive Scratch projects.

#### Spring

Over the Spring term, year 6 and year 5 have completed their computer science units using the computing suite. Year 5 now have a good understanding of conditions and how they are used in coding. Year 6 have created their own games in Scratch, which they have really enjoyed, showing their imagination and creativity. Years 1 and 2 have also completed their computer science unit, focusing on directional language and making instructions clear and precise. Year 2 have been creating their own BeeBot worlds.

Years in KS2 we have also been looking at communicating electronically using our online learning platform DB Primary (a safe and secure online learning environment). We have also focused on how to stay safe online as well as being respectful members of the online world.

### Difference

Our children are prepared to study computing at secondary school through our approach. They understand the vocabulary and concepts for them to progress quickly in their studies. Through their computational thinking unit, children have learned how to apply the necessary thinking skills to become successful coders in the modern world.

DB primary training has enabled staff to access and use the software to aid their teaching. DB primary uses real life scenarios to teach key skills e.g. how to use a keyboard. The e safety thread runs throughout, which underpins our Learning and Lifeskills. The unit on computational thinking is also a problem solving approach which can be applied to any life skill or area.

The unplugged curriculum has increased the confidence of both the children and the staff teaching computing. It has allowed the concepts to be covered without the stress of having to know how to use a computer.

We regularly liaise with other local schools to keep up to date with current trends in teaching computing and ensure that our provision is the best that we can provide.

### Useful websites

#### Barefoot Computing

Downloadable activities and games for children, links to live lessons and a guide for parents - includes cross-curricular lesson plans and resources that unpack computational thinking in a range of subjects.

<https://www.barefootcomputing.org/>

#### Code Club

Projects and activities for home learning and a parent guide.

<https://projects.raspberrypi.org/en/codeclub>

#### UK Safer Internet Centre (KS1 and KS2)

Online safety resources aimed at 3 -11 year olds.

<https://www.saferinternet.org.uk/advice-centre/young-people/resources-3-11s>

#### STEM Learning e-Library (KS1 and KS2)

An online resource bank, which links to resources on external websites. The site features a live chat function offering support from subject experts. New home learning resources are being developed.

<https://www.stem.org.uk/primary-computing-resources>

### Computing Gallery

