



Computing

We live in a rapidly changing technological world. This means that we need to ensure that our children grow up acquiring the skills, knowledge and understanding to use various forms of ICT in order to prepare them for life in the future.



What is Computing?

There are three aspects to computing at Key Stage 1:

- Firstly, **Computer Science**, pupils are taught what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Children create and debug simple programs and use logical reasoning to predict the behaviour of simple programs.



- Secondly, **Information Technology** which teaches children to use technology purposefully to create, organise, store, manipulate and retrieve digital content.
- Finally, **Digital Literacy**, which teaches children to recognise the common uses of information technology beyond school. How to use technology safely and respectfully, keeping personal information private; identifying where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

What Computing opportunities do we offer?

Computing is now fully embedded into the curriculum. This means that children use their skills to enhance learning in all subjects.

Computing takes place throughout the day. Each class has 2 iPads and we have a full suite of computers. Children develop the key skills planned for by their teacher according to the different areas of learning in Computing:

- Coding
- Computer science
- Networks and the Internet
- Communication and collaboration
- Creativity
- Productivity



We have a wide range of software and online materials that we use to support curricular activities, which we regularly review. We are committed to using up to date digital resources and are subscribers to online Learning content such as Bug Club, Abacus and Purplemash.

Interactive Whiteboard Technology

What is an interactive whiteboard?

An interactive whiteboard is a large, touch sensitive board which is connected to a digital projector and a computer. The projector displays the image from the computer screen on the board. The computer can then be controlled by touching the board, either directly or with a 'mouse' pen. All classes at Doddinghurst use interactive whiteboard technology, which allows teachers to:

- use web-based resources in whole-class teaching
- show video clips to help explain concepts
- demonstrate a piece of software
- present pupils' work to the rest of the class
- create digital flipcharts
- manipulate text and practise handwriting
- save notes written on the board for future use
- enable quick and seamless revision of previous lessons.

Among the benefits for the learners, are:

- increased enjoyment and motivation
- greater opportunities for participation and collaboration, develop pupils' personal and social skills
- ability to cope with more complex concepts as a result of clearer, more efficient and more dynamic presentations
- development of different learning styles as teachers can call on a variety of resources to suit particular needs
- enrichment of pupils creative skills in presentations to their classmates— increasing self- confidence

Developing communication

Children at Doddinghurst are being introduced to a variety of technologies to communicate their ideas. Our vast range of hand held technologies include laptops, digital cameras, Beebots, iPads and sound buttons.

At Doddinghurst we have also invested heavily in Apple technology. We have a number of iPads for children to use right through the school. The children are becoming familiar in a range of Apps when using iPads.

Using the internet

The internet is fantastic for information and great for communication, but we all need to know how to use it safely.



Your children are likely to have internet access in more than one place, so it's important to equip them with the skills to handle this new technology safely. Here are some top tips from www.thinkuknow.co.uk

1. Talk to your child about what they're up to online. Be a part of their online life; involve the whole family and show an interest. Find out what sites they visit and what they love about them, if they know you understand they are more likely to come to you if they have any problems.
2. Keep up-to-date with your child's development online. Children grow up fast and they will be growing in confidence and learning new skills daily. It's important that as your child learns more, so do you.



3. Set boundaries in the online world just as you would in the real world. Think about what they might see, what they share, who they talk to and how long they spend online. It is important to discuss boundaries at a young age to develop the tools and skills children need to enjoy their time online.
4. Keep all equipment that connects to the internet in a family space. For children of this age, it is important to keep internet use in family areas so you can see the sites your child is using and be there for them if they stumble across something they don't want to see.



Our school website

Visit our school website for useful information about our school as well as, links to fun games to complete at home:

[http://
www.doddinghurstinfantschool.co.uk](http://www.doddinghurstinfantschool.co.uk)

You may also find these websites useful!

www.bbc.co.uk/schools/typing/

www.lancsngfl.ac.uk

www.primaryresources.co.uk

www.crickweb.co.uk

www.thekidzpage.com

www.parentsintouch.co.uk

www.mathletics.co.uk

www.bigbrownbear.co.uk/

www.activelearn.co.uk