

## Staying safe online

At Hollydale we are committed to developing an understanding of E-safety for both children and parents and carers. We are keen to make children aware of both the benefits and risks of new technology. Hollydale achieves this by ensuring that:

- Pupils are supervised appropriately when they use the Internet.
- Pupils are given clear objectives for Internet use.
- Pupils are provided with lists of relevant and suitable web sites.
- Pupils are aware of their responsibilities.
- Curriculum planning identifies opportunities to enrich and extend learning activities via access to the Internet
- Internet access is purchased through London Grid For Learning (LGFL), which provides a firewall that filters out inappropriate sites



## Useful websites

Useful websites for information about keeping children safe online.

CEOP

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

Internet Matters

[www.internetmatters.org](http://www.internetmatters.org)

Parent Zone

[www.theparentzone.co.uk/parent](http://www.theparentzone.co.uk/parent)

## Useful terminology

**Algorithm** - a set of instructions to solve a problem or achieve a particular objective.

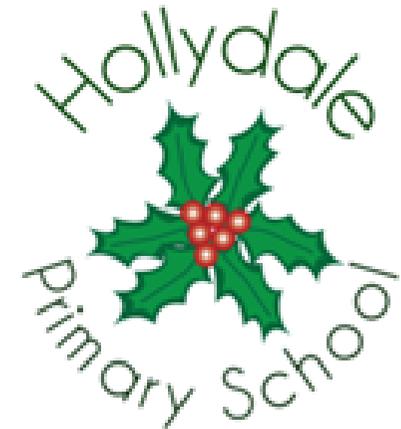
**Debug** - to detect and correct the errors in a computer program.

**Input** - data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors

**Program** - a stored set of instructions encoded in a language understood by the computer that does some form of computation, processing input and/ or stored data to generate output.

# Hollydale Primary School

Computing Information  
2017 –2018



Information to help parents understand the teaching of Computing at Hollydale.

## The Computing curriculum

A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. The Computing Curriculum at Hollydale is taught across three main areas:

**Computer Science:** This is the core of the computing curriculum and teaches children to design, write and debug programs. They will also have an understanding of how digital systems work.

**Information Technology:** This is use of technology to accomplish goals including searching for and collecting data.

**Digital Literacy:** Children are required to have an understanding how to use technology safely and respectfully. They are taught to recognise what acceptable behaviour is.

Computing is taught weekly by our specialist teacher and it is also taught through cross-curricular links with other subjects.



## Computing in EYFS and KS1

In our Early Years and KS1 classes children are taught that Computer programs are comprised of sets instructions and they need to be written in a precise language a computer can 'understand'. This introduces them to the concept of coding.



Children learn that a 'computer' is not just a traditional desktop or laptop PC; it is any device that accepts input, processes it, and produces an output. These digital devices include the controller in your car or microwave, your mobile phone, tablet, laptop and desktop, as well as high-end supercomputers and 'virtual' servers in the 'cloud'.

At Hollydale, children gain experiences of writing some programs themselves. Programming involves taking an idea for doing something and turning it into instructions the computer can understand. This this could be writing a set of commands for a Bee-Bot or on-screen program building blocks together in Scratch.



## Computing in KS2



The focus on algorithms at key stage 1 leads pupils into the design stage of programming at key stage 2

We use a range of resources to allow the children to experience coding including:

- **Scratch** which allows children to program their own interactive stories, games and animations
- **Lego wedo robots** can be programmed on an iPad allowing children to design routines to move the robot change the lights and play different sounds.
- **Microbits** are used to download programs that the children have designed.

Children in KS2 at Hollydale also further their understanding of how networks work across the world.