

The ICT Curriculum at Viridis

The ICT curriculum at Viridis consists of **3 main elements** that are taught progressively over Key Stage 1 and Key Stage 2:

Computer science

How computers and computer systems work, and how they are designed and programmed. Pupils studying computing gain insight into computational systems of all kinds, whether or not they include computers.

2Logo, Daisy Dino, 2code, Scratch, and Espresso.

Information Technology

To teach students the know how of operating simple IT tools and accessing information via computer networks.

Text tease, Book Creator, 2Question, 2Investigate, and Microsoft Excel.

Digital Literacy

“The ability to locate, organize, understand, evaluate, and create information using digital technology.” Digitally literate people can communicate and work more efficiently, especially with those who possess the same knowledge and skills.

iMovie, Can Animate, 2email, Windows Media Player, and Audacity.

Useful Websites

www.mathletics.com

An online maths programme that your child has access to from school.

www.thinkyouknow.co.uk

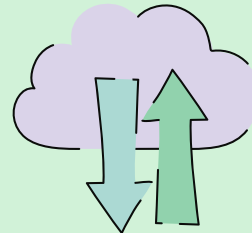
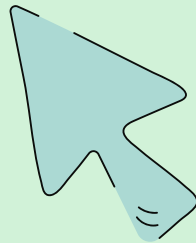
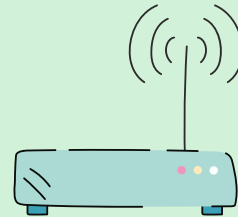
An educational programme from the National Crime Agency CEOP.

www.scratch.mit.edu

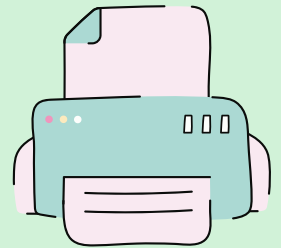
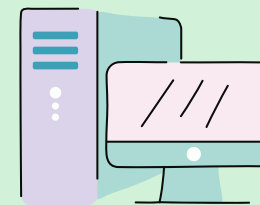
A free coding website where children can create codes and games of their own.

www.bbc.co.uk/education

Educational resources to support all.



ICT Information Communication Technology



ICT Opportunities at Viridis

ICT is taught both explicitly through weekly sessions and is embedded throughout the school curriculum. This allows children to develop key skills and then use these to enhance their learning in all subjects.

With access to class sets of iPads and laptops, children have ICT available at their finger tips, and by the time they leave our schools, they are fluent in a wide range of programmes and applications.

This fluency allows the children to communicate their ideas and work in a variety of mediums, ranging from the Microsoft Office programmes, through to more recent applications such as iMovie and Explain Everything.

In today's world, it is vital that children have the ability to present in a range of ways that are relevant and current.



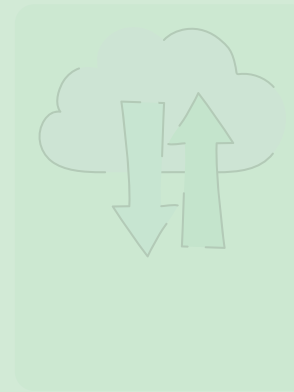
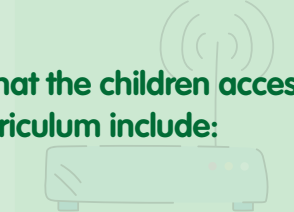
The Power of Coding

Coding has had its profile in the curriculum boosted in recent years, as an ever increasing number of jobs available to today's children will involve it in some form.

Coding involves learning what algorithms are and how they are implemented as programs on a digital device. An algorithm is a set of rules that are programmed for a computer to follow. This will include designing and writing programmes that accomplish certain goals, leading to using that learnt knowledge to code and program their own apps.

Coding programmes that the children access through the school curriculum include:

- Scratch
- Espresso
- HTML



Developing Communication

Children at Viridis are being introduced to a variety of technology to communicate their ideas. We have a large range of hand held technologies include: Beebots, iPads, data loggers and voice recording devices. The majority of these are utilised from Nursery to Reception, at age appropriate levels.

Communication Online

Use of the internet, includes the use of emails. Through our curriculum, children learn to create, write and send emails in order to communicate with others.

Alongside this content, and running through out all our on line teaching, is the importance of e-safety. Raising children's awareness of the importance of staying safe on line is vital to them being able to use the internet with the least risk possible.

We teach a progressive content of e-safety to ensure pupils leave us in Year 6 as secure digital citizens.