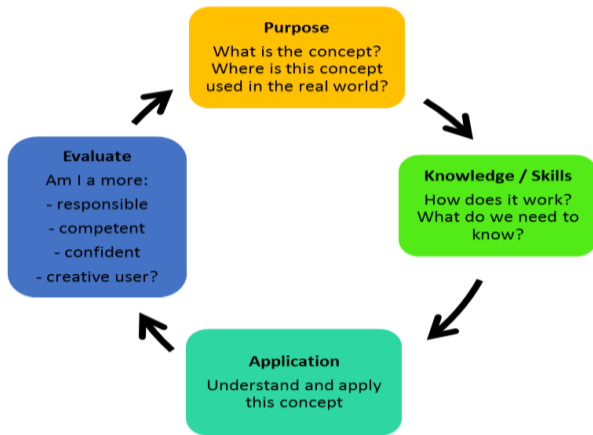# Cove Junior School
Curriculum Statement Computing

The question is not "What will the computer do to us?" The question is "What will we make of the computer?"
Seymour Papert

Computing Enquiry Approach

Purpose
What is the concept?
Where is this concept used in the real world?

Knowledge / Skills
How does it work?
What do we need to know?

Application
Understand and apply this concept

Evaluate
Am I a more:
- responsible
- competent
- confident
- creative user?

National Curriculum Aims

The national curriculum for computing aims to ensure that all pupils:

- Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- Can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- Are responsible, competent, confident and creative users of information and communication technology

Curriculum Intent for Computing

Our computing curriculum aims for children to become competent, confident, creative and responsible users of technology in all aspects of their lives. We want children to:

- Be able to identify and access the benefits of technology to become socially responsible members of a global community.
- Become competent in the use of a wide range of technologies, while understanding that technology is ever changing and to face these changes with skills and judgement that will allow them to embrace new developments.
- Be confident as digital citizens and for them to learn the skills to engage in this online world: in their school lives; their social lives and ultimately in their career.

As part of our curriculum, we want children to become creative users of technology and to see how this complements other skills rather than being used in isolation. Our curriculum encourages children to be problem solvers and to become critical thinkers. We celebrate children showing independence, finding their own solutions and making mistakes along the way.

Curriculum Implementation for Computing

Our computing curriculum has been broken down into 5 areas: Programming, Multimedia, Data, E-safety and Technology in our Lives.
Each area is implemented differently.

- E-safety is taught as a whole school community issue and is very much integrated within our PSHE curriculum. This will be taught through assemblies as well as lessons in class. Through studying and discussing real life examples, children will be taught about the knowledge and behaviours that will allow them to safely navigate an online world. There will also be some teaching about specific devices, platforms or applications where a current issue needs addressing.
- Data lessons will be integrated within subjects where there is a real need to analyse, present and understand data. This will allow children to see where computing can support them in this area (for example in maths, geography or science lessons.
- Multimedia lessons will allow children to use different software to combine and present media, to best effect, for a real purpose. It is not possible for children to become proficient in the use of the huge range of ever-changing multimedia software so children will learn transferable skills and creativity is highly valued.
- Programming will be taught mainly through Scratch but will focus on computational thinking skills such as decomposition, abstraction and algorithms.

Whenever possible, and appropriate, children will have one device each to allow them to fully participate and have ownership of their work.

Curriculum Impact for Computing

Children will see computing as a tool that they can use to enhance their lives. They will be able to see and realise the benefits, while being aware of and minimising the negatives. Children will build on the computing skills year on year through our skills progression and will leave Cove Junior School confident and excited to build on these skills.