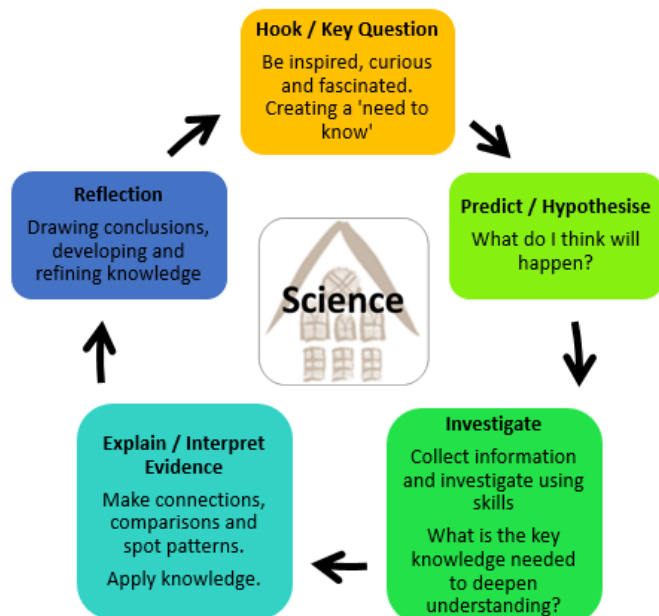




## Cove Junior School Curriculum Statement Science

**“The scientist is not a person who gives the right answers; he is one who asks the right questions”  
Claude Levi-Strauss (French Anthropologist)**

### Scientific Enquiry Approach



### National Curriculum Aims

The National Curriculum for science aims to ensure that all pupils:

- Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- Are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.



### Curriculum Intent for Science

Our vision is to develop the natural curiosity that children have about the world we live in. By doing this, we encourage them to investigate and find answers that ensure they have a better understanding of natural phenomena as well as how they can make a positive contribution to bring about change to the world we live in.

We seek to promote a growth mind-set that further develops enquiring minds, so the children become independent learners who are able to show resilience in order to solve an investigation and answer a question.

Our curriculum is based on an enquiry approach - developing an understanding of how science can be used to explain what is occurring, predicting how things will behave, and then analysing causes and changes that they have noticed.

### Curriculum Implementation for Science

Scientific ideas often lead topics, where enquiries are designed to link to other areas of the curriculum. Children are encouraged to apply prior knowledge and then think logically to apply their new learning to solve a problem creatively.

The learning journeys in science are based upon Hampshire's Key Ideas - this ensures progression as the children journey both into and out of KS2. Teaching focuses on working scientifically; where ideas are challenged and children are encouraged to develop as scientists across KS2. Significant ideas are revisited, to make sure the children are properly equipped for learning new scientific concepts or ideas. Children are then challenged to apply their knowledge by completing an enquiry which extends and deepens their understanding of ideas.

To further extend learning and provide context, a variety of science focused school trips are made available throughout the Key Stage.

### Curriculum Impact for Science

The children are aware of what makes a good scientist and are able to apply the principles of working scientifically. Moderation ensures progress is sustained and is carried out by undertaking Learning Walks (governors and the senior leadership team) as well as by sharing work across year groups. The children are regularly assessed against the National Curriculum, using their conclusions and predictions to check their understanding of the key concepts.

Because children are at the centre of the teaching values at Cove Junior School, regular conferencing with children is undertaken to ascertain and share their views about science.

When children leave Cove Junior School, they will have a good understanding of the world around them; the impact humans are having; as well as the benefits of scientific research. They will be life-long learners who will continue to explore the world and universe around them.