

## **Buckler's Mead Academy**

### **Science Subject Information**

We want all of our students to recognise Science as a discipline of inquiry underpinned by a body of knowledge that seeks to explain the material world. Our students will learn about the differences between each Science and learn about the diversity of approaches used to establish knowledge in Science, whilst recognising that there is not one scientific method. Our curriculum builds knowledge of key concepts in a meaningful way that reflects how knowledge is organised in the scientific disciplines. We want our students to recognise that scientific concepts, and the relationships between them, are the building blocks of scientific knowledge.

Our curriculum is planned to encourage scientific curiosity and ensure that our students are able to design and carry out valid scientific investigations and record, analyse and evaluate the results of investigations.

We want children to love reading and our Science curriculum is designed to encourage reading more widely. We want our students to become sufficiently scientifically literate to confidently communicate their understanding, and discuss their views on issues reported in scientific articles in the media. We want our students to engage with scientific issues and form valid opinions underpinned by knowledge and understanding of the scientific principles involved.

Our curriculum is also designed to ensure that our pupils develop a knowledge of how science relates to moral, social, cultural and spiritual issues as well as the scope and limitations of science in this regard. We also aim to make our students aware of the wide array of Science related careers which are available so that they can make more informed decisions about their next steps. The science curriculum is therefore more than a description of the journey towards expertise - it is also the means by which to get there.

Our students will be able to describe how scientific inquiry has led to new discoveries over time and shaped not only our view of our place within our ecosystem and how we affect it, but the Earth's place in the solar system and beyond. Students will also be able to describe the limitations of science so much that some questions cannot be answered yet.