



***"Show me your way, Lord teach me your paths." Psalms (25.4)***

### **Science – Curriculum Intent**

At Almondsbury Primary School we recognise the importance of Science in developing our pupils' knowledge and understanding of the world around them. We encourage our children to develop their natural curiosity about the world through weekly discrete Science lessons. These provide the children with a rich and meaningful insight into many different areas of Science where they can deepen their knowledge and understanding. Our Science curriculum covers a range of topics which fall under the three main scientific disciplines of biology, chemistry and physics. Within the biological strand, children learn about the processes and functions of the human body as well as developing their understanding of plants and animals. This is built upon as children progress through the school to ensure detailed coverage and progression. The chemistry and physics units, which cover a broad spectrum of topics including space, forces, states of matter, light and electricity amongst others, are taught within specific year groups, and serve to broaden pupil's scientific knowledge base as they progress through the school.

We believe that children should also develop their ability to think scientifically and develop their understanding of enquiry and investigation. Therefore, within our topics we provide the children with lots of opportunities to perform hands-on practical investigations as a way of answering insightful scientific questions. To help scaffold consistent and detailed investigations we have developed an investigation proforma which is visible in every class and is built upon as children move through the school. These break down scientific investigations into three key areas of investigative skills (planning, obtaining evidence and evaluation), allowing the pupils to understand the different requirements to ensure reliability and validity. The scientific proforma includes:

- Question – What am I trying to find out?
- Prediction – What do I think will happen?
- Equipment – What will I need to perform the investigation?
- Fair Test – How will I ensure the investigation is fair?
- Method – What steps will I take when performing the investigation?
- Results – How can I measure what has happened?
- Conclusion - What have I learnt from this? Was my prediction correct?

We believe that our approach will help the children to be equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.