



# Science



Science helps us to understand our world through observation and experiment and is the key vehicle to respond to societal and global challenges.

**Intent: the science curriculum will ensure that all pupils:**

- Acquire the skills knowledge and understanding to develop a wonder and curiosity about the natural world and the world around them;
- Through the exploration of biology, chemistry and physics, will become rational thinkers and will understand how science has impacted on their world and their lives;
- Understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes and data to draw conclusions;
- Understand the role of science in our future health and prosperity.

**Pupils' version**



**I will develop an understanding of the world [physical and natural] around me through logical thinking and experimentation.  
I will have comprehensive understanding of how the human body works.**



**Implementation**

Teachers will:

- Model how to be a scientist at every opportunity;
- Develop a coherent scheme of work that integrates the disciplines of Biology, Chemistry and Physics. This will include areas such as:
  - Living thing: plants, animals and humans;
  - Evolution and inheritance;
  - Investigation of materials;
  - Forces and the physical world [including the earth's movement in space, electricity etc];
- Plan lessons allowing for a wide range of scientific enquiry, including the following:
  - Establish a hypothesis;
  - Undertake comparative and fair testing;
  - Research using secondary sources;
  - Observe and accurately record data to obtain results over time;
  - Seek patterns, classify and group;
  - Analyse data to draw conclusions and evaluate the process;
- Systematically plan and teach pupils to understand and use correct scientific vocabulary; to talk confidently and to apply their literacy and numeracy skills;
- Ensure that all pupils know how to access all parts of the curriculum safely;
- Effectively integrate key knowledge about influential scientists where most meaningful;
- Employ technology and resources in the classroom to enable pupils to work scientifically and to bring the curriculum to enhance the curriculum.

**Impact**

Pupils will:

- Have a detailed knowledge of the fundamentals of science and will secure the skills needed to be a scientist and as a result, will achieve well;
- Recognise the positive impact that science plays in their lives in areas such physical and sexual health, reproduction and sustainability;
- Understand that the only way to solve the major issues facing the human race and the planet is to work collaboratively through science to find solutions;
- Demonstrate a lifelong awe and wonder for the world.