

# Science

## Curriculum Intent

At Bressingham Primary School, we encourage children to develop an enquiring mind by offering an interesting, real and relevant science curriculum. Science continues to change our lives in many different ways. We value the importance of learning about scientific knowledge, methods and processes, and how this provides the foundation for understanding the world we live in. Our curriculum covers the three scientific disciplines of biology, physics and chemistry. We study a varied curriculum, but also one that builds upon knowledge and skills year on year.

## Our ethos through everything...



## Characteristics of a Scientist

- The ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings.
- Confidence and competence in the full range of practical skills, taking the initiative in, for example, planning and carrying out scientific investigations.
- Excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations, solving challenging problems and reporting scientific findings.
- High levels of originality, imagination or innovation in the application of skills.
- The ability to undertake practical work in a variety of contexts, including fieldwork.
- A passion for science and its application in past, present and future technologies.

# Implementation

Our pupils should be able to organise their knowledge, skills and understanding around the following threshold concepts.

## Work scientifically

### Biology:

- Understand plants
- Understand animals and humans
- Investigate living things
- Understand evolution and inheritance

### Chemistry:

- Investigate materials

### Physics:

- Understand movement, forces and magnets
- Understand the Earth's movement in space
- Investigate light and seeing
- Investigate sound and hearing
- Understand electrical circuits

These key concepts underpin learning in each milestone. This enables pupils to reinforce and build upon prior learning, make connections and develop subject specific language.

Three milestones show the accumulation of knowledge and skills from Year 1 to 6.

# Impact

Our assessment systems enable teachers to make informed judgements about the depth of their learning and the progress they have made over time. Teachers assess children at the end of each unit using the milestones and depth of learning within the milestones. This is reviewed by the subject leader, who also carries out regular learning walks and work scrutiny.