

Cleeve Prior CE Primary Science Curriculum offer

Nurturing

Flourishing

Growing



“Science is a way of life. It is a perspective. Science is the process that takes us from confusion to understanding in a manner that’s precise, predictive, and reliable – a transformation, for those lucky enough to experience it, that is empowering and emotional.”

Our vision is to provide a safe, caring and nurturing environment, where everyone is given opportunities to learn, discover and grow in our changing world. We will live out our Christian values of Respect, Hope, Love, Forgiveness, Trust and Honesty and strive to guide our community into leading fruitful lives, learning from Jesus' teachings, to love themselves and one another in order to flourish.

‘Teach children how they should live, and they will remember it all their life.’ Proverbs 22:6

Cleeve Prior CE Primary School – Learning and growing together in God's family.



We believe our vision, along with its associated values, set the tone for our entire ethos as a school community. We want to give our children the best start, be led by the example of Jesus' life and for all our children to know that they can achieve anything if they put their mind to it. Our role as a school is to help them to become citizens of the future, to lead and inspire others.

Our school promotes an exciting, Christian community in order that all of our pupils will:

- ♦ become independent life-long learners with an enjoyment of learning.
- ♦ achieve their full potential in all areas.
- ♦ behave well and grow in self-esteem.
- ♦ make progress emotionally, morally, physically, socially and spiritually.
- ♦ have respect for others' views, be tolerant of differences and value one another equally so they are able to live and work harmoniously in our multi-cultural society.



Science Intent



Science helps us understand how the world works – it helps us answer and consider some of life's greatest questions. At Cleeve Prior we want our children to develop a secure understanding of biology, physics and chemistry as well as how to work and think scientifically. By teaching our children science in primary school, we inspire them to continue enjoying these subjects as they enter KS3 and hope many of them see an element of science in a future career.

We want our children to develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. To develop understanding of the nature, processes and methods of science through different types of science enquiries (working scientifically processes) that help them to answer scientific questions about the world around them. We want to ensure that our children are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Science Implementation



Science is taught for at least an hour a week in KS1 and at least 90 minutes a week in KS2.

Our planning is based on Kapow but adapted to suit the needs of our two mixed-age classes. We ensure that science is taught on a two year cycle that means that we repeat key knowledge on a regular basis to aid those key facts being embedded into the long term memory.

Science skills are taught explicitly and the children are regularly reminded of the different skills covered in each lesson.

Key Stage 1

We use the Science and Engineering Education Research and Innovation Hub (SEERIH) symbols to help our children become more effective scientists. These are shared with our children from Reception class and are displayed on our science learning walls for regular reference in child-friendly language.



Carrying out fair tests,



Putting things into groups



Finding patterns



Seeing how things change



Finding out more, using books and computers

Key Stage 2



Carrying out experiments and fair tests – changing variables



Grouping things based on shared properties and similarities



Finding patterns in data and nature



Seeing how things change over time



Finding out more, using books, computers and other sources of information

Impact

We complete regular Assessment for Learning checks in science lessons. Our Knowledge Catchers collect learning for each topic and are supported by low-stakes quizzes and flashback activities.

At the end of each year, our children complete a summative assessment which is based on DFE KS1 and KS2 exemplification materials. This helps our judgements and identifies gaps and misconceptions.

We are currently taking part in the Focus4Taps trial in science which will carry forward into 2025-26.