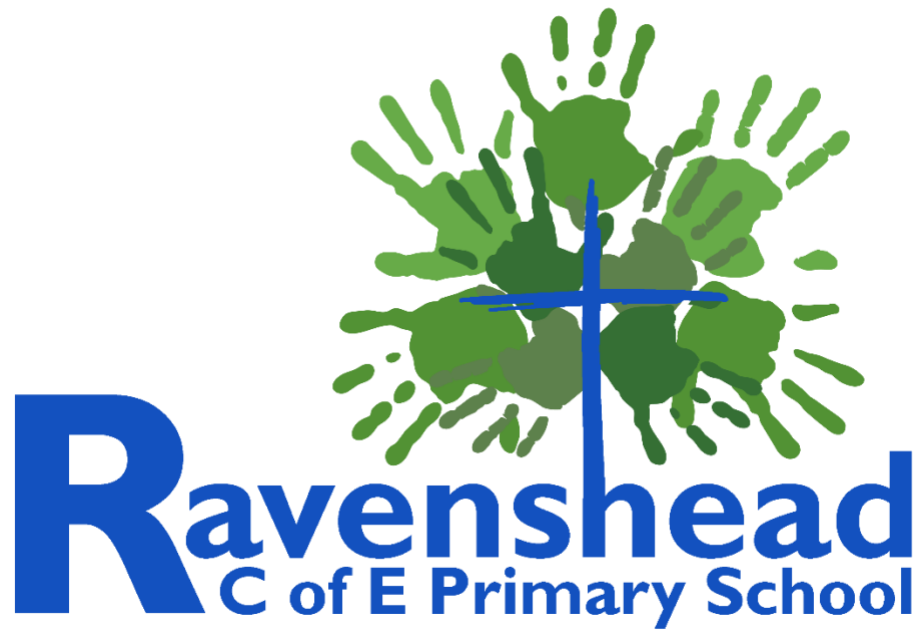




Science

This policy was updated:	Sept 2024
This policy will be reviewed:	Sept 2025
Statutory policy:	No.
Source:	School

Our School Vision/ Values

Our inclusive school vision is based on the theme of 'Taking Care'. We encourage our children, staff and wider community to 'take care' of one another through the key Christian Values of Respect, Kindness, Courage and Hope. Our vision is inspired by the words in Corinthians: "Let love and kindness be the motivation behind all that you do" (1 Corinthians 16.14).

National Curriculum Expectations/ Why is Science Important?

A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

The national curriculum for science aims to ensure that all pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

When is Science taught?

Science is taught weekly across the school. KS2 has on afternoon a week dedicated to Science whereas EYFS/ KS1 group the learning into focused sessions per term.

How is Science taught?

As a school we follow the White Rose scheme for teaching Science. This ensures consistency and progression across knowledge and understanding, skills and vocabulary used.



What do we learn about in Science?

Please see the curriculum mapping document to see what is taught and when. It clearly outlines where all of the national curriculum objectives are covered. You will also need to refer to the enquiry mapping grid and the vocabulary progression grid.

How do we assess and monitor Science?

Teachers assess children's achievement in Science at the end of each session. Notes are recorded in our Topic Assessment Record Books which provide the AFL (Assessment For Learning) for the next session. Teachers feedback verbally to children about how well they have achieved in their activities and what their next steps are. This may be at a whole-class, group or individual level as appropriate and maybe incorporated as part of the learning for the next Science session where applicable.

This year we are starting to introduce using the formal end of unit assessments provided by White Rose Science.

The subject is monitored by the subject leader through planning scrutiny, learning walks, book looks and pupil voice interviews and/or questionnaires. The subject leader uses this information alongside details provided by class teachers to ascertain whether children are below expectations, meeting expectations or exceeding expectations within each year group. Each year group also has a working scientifically evidence book, that clearly shows what investigations have been carried out and what the children have learned.