



Science @Pershire High School

Intent:

We believe that students at Pershire High School deserve a broad Science curriculum that is rich in skills and knowledge and is challenging yet accessible to all. It will provide our students with a deep understanding of scientific concepts and principles, as well as the skills they need to apply this knowledge to real-world situations. Science lessons should ignite curiosity and encourage students to be creative and problem solve.

Implementation:

Our curriculum is delivered through a range of different units of study in biology, chemistry, and physics. We use a range of teaching methods including teacher led instruction, practical work, group work and independent research.

All new learning in Science is based on prior learning and links made both within Science and with other subject disciplines. Misconceptions are identified and challenged.

Disciplinary knowledge is mapped and clearly identified in lessons. We provide students with opportunities to use scientific tools and technology, including microscopes, data loggers, and computer simulations. We aim to develop students' ability to use these tools effectively and appropriately.

Student understanding and progress is checked through low stakes testing, hinge point questions and end of year and unit tests. Students regularly practice knowledge retrieval and retention of knowledge is encouraged, through the use of 'thinking hard' activities.

Impact:

Our science curriculum aims to have a positive impact on students in a range of different ways, including:

- Developing students' understanding of scientific concepts and principles, enabling them to apply this knowledge to real-world situations.
- Developing students' scientific literacy, enabling them to understand the scientific process and to critically evaluate scientific information.
- Developing students' practical and investigative skills, enabling them to design and carry out experiments, analyse data, and communicate findings.
- Encouraging students to work collaboratively and independently, developing their communication and problem-solving skills.
- Preparing students for further study and employment in scientific fields, as well as developing the skills they need to succeed in adult life.

Through our science curriculum, we aim to inspire students to be curious about the world around them, to develop a love of learning, and to make informed decisions based on scientific evidence. As a result, Pershire students will be able to understand the uses and implications of science today and be better prepared to use their transferable skills for either future learning or to enter the workplace.