Science Journey

GCSEs and further study

Apprenticeships

College courses

Finish

Building confidence in scientific enquiry and communication

Pupils explore careers that involve working with energy sources.

Pupils develop their understanding of energy, forces and the structure of matter.

Skills include completing structured practical assessments, answering written questions, and demonstrating understanding through coursework.

Pupils develop functional science knowledge that supports independence, decision-making, and everyday problem-solving—preparing them for life beyond school.

Year 11

Pupils learn about the elements and compounds that surround us.

Pupils develop independent investigative skills.

Pupils consider careers in the health and care sector.

Pupils consolidate their understanding of key scientific concepts..

Pupils learn about the human body and health.

Year 10

Pupils explore chemical reactions, atoms, elements, compounds, and the Periodic Table through safe, engaging experiments.

Pupils study Earth science topics including rocks, weathering, geological time, and dynamic Earth processes.

Pupils learn about careers linked to each topic.

Pupils investigate sound and light.

Pupils study Earth science topics.

Pupils complete practical investigations such huddling experiments, acids and alkalis, and lava flow simulations.

Pupils study microbes, infection, immunity, food webs, and photosynthesis, using microscopes and models.

Year 9

Pupils explore chemical reactions, separating techniques, acids and alkalis, and the particle model through crime scene-style investigations.

Pupils study the Solar System, seasons, and forces, developing understanding of space and gravity.

Year 8

Topics are linked to job roles and work settings.

Pupils explore climate change, energy transfer, and human impact on the environment.

Pupils study cells, digestion, lungs, exercise, drugs, and healthy diets, linking science to personal health and wellbeing.

Pupils develop their understanding of sustainability

Pupils explore how sounds are made and how vibrations travel through different media. They investigate pitch, volume, and how sound changes with distance.

Pupils learn to group living things in various ways and use classification keys to identify organisms in their local and wider environment. They explore how environments can change and the impact this has on living things.

Year 7

Pupils study the digestive system and interpret food chains, identifying producers, predators, and prey.

Pupils compare solids, liquids, and gases, observe changes of state, and investigate evaporation and condensation in the context of the water cycle.

Pupils are introduced to electrical circuits.

Skills include noticing differences, showing preferences, and beginning to ask simple questions through play.

They learn to sort, group, and classify objects based on observable properties.

Pupils begin to carry out simple investigations and learn to work collaboratively.

Primary Blue

Primary Yellow

Primary Red

Pupils build foundational scientific knowledge about living things, materials, weather, and the human body.

They develop early observational skills by engaging with natural materials, light, sound, and textures.

Pupils begin their science journey by exploring the world through sensory experiences.