



Curriculum Statement - Science

Science is so important within the curriculum because it is the story of the Earth. 13.5 billion years ago, matter, time, energy and space came into being in the Big Bang. Physics is the story of these fundamental features of the universe and how they came into existence; chemistry deals with the formation of atoms and molecules and their interactions that occurred around 300 000 years after they first appeared; finally, biology is the study of how some of these molecules combined into more and more complex and elaborate organisms around 3.8 billion years ago. It would be impossible to contemplate a curriculum devoid of science!

Everyone is affected by science which is why we believe that a high quality education in science provides the foundations for understanding the world and is vital for its future prosperity. It is through science that we can help the next generation fight against some of the damage that humans are inflicting: science therefore has a vital role to play in ensuring that we develop a sustainable future - the scientists of tomorrow will be face by challenges both known and unknown, and we will all be reliant on their successful resolution.

Science combines both the theoretical and practical study of the structure and nature of the physical and natural world through thought, observation and experimentation. We want our students to develop the essential skills of observation, communication, classification, measuring, recording, inferring and predicting. We want to encourage our students to be inquisitive, to challenge accepted 'truths' and to learn the skills of analysis and investigation. We want them to see science not just as a set of separate facts but as a complex and beautiful web that literally tells us the story of the world around them.

The numerous and diverse range of scientific careers are both rewarding and challenging, and await a successful scientist. Scientific careers range from medical professionals through to technology engineers and everything in-between. Our students success in science doesn't just lead onto scientific pathways, the skills of investigation, critical thinking and enquiry are transferable to many professions in our ever changing and advancing world.

We believe it is our duty to develop our students culturally, emotionally, intellectually and spiritually and empower them to become truly global citizens: we want them to move forward with confidence, in an increasingly complex world.

"I have not failed. I've just found 10,000 ways that won't work" – Thomas Edison