



Science Intent Statement

Overall aim: To develop a sense of excitement and curiosity about the world, through the specific disciplines of biology, chemistry and physics so that children can see how science changes our lives and is vital to the world's future prosperity.



- Wisdom to become confident individuals who can ask questions about the world around them.
- Grow to develop a sense of excitement and curiosity about natural phenomena.
- Grow in the use of scientific language and use evidence to draw conclusions and justify and ideas.



- Strength to give opinions and to question observations and results.
- Trust that they have the necessary skills to predict, plan and carry out fair tests.
- Trust in their own decision making and decide the type of scientific enquiry that is best to gain answers.



- Connect with one another through first-hand practical experiences.
- Make connections through noticing patterns and comparing and contrasting information given.
- Work collaboratively with others to analyse functions, relationships and interactions.

Context

Opportunities in school: Hands on, practical experiences, cross curricular links, wide range of STEM opportunities and specific weeks and days, links to Forest School, access to STEM Ambassadors, Science Week

Opportunities in the local area: Links to Jarrow and Hebburn Secondary Schools, The Centre for Life, The Discovery Museum, engagement with local STEM Ambassadors

Opportunities for life in Modern Day Britain: Developing a passion for STEM, diverse range of Scientists, debate and discussion

End Points

EYFS	KS1	KS2
To make observations of animals and plants and explain why some things occur.	To find out and describe the basic needs of all living things - plants and animals, including humans.	To classify plants and animals based on specific characteristics and identify how animals and plants are adapted to suit their environments.
Children can observe a range of phenomena and see how they change.	Children carry out comparative tests to see how different chemical elements react and change.	Children understand how to plan and carry out fair tests to see how and why different chemical elements change.
Children can explore and observe a range of materials, identifying their similarities and differences.	Identify and compare the suitability of a variety of everyday materials based on their simple properties and find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Compare and group together everyday materials on the basis of their properties and investigate that some solids will dissolve into a liquid and that some mixtures can be reversed.