

ABC Links to literacy

We develop scientific literacy through reading scientific literature aloud, and applying knowledge to extended writing questions. We discuss key concepts with our peers to help embed key terms.

AUTUMN - 2

Topic name: **The Human Nervous System**

Why study this topic? In this section, I will explore the structure and function of the nervous system and how it can bring about fast responses.

Topic name: **Particle Model of Matter**

Why study this topic?

We learn about particles and matter as it will enable us to predict properties and behaviour of solids, liquids and gasses.

SPRING - 2

Topic name: **Forces in balance**

Why study this topic? Engineers analyse forces when designing a variety of machines and instruments. By studying this topic, I will be able to develop the skill sets engineers use to drive society. .

Topic name: **Crude Oil, Fuels and organic motion**

Why study this topic?

This topic will help me appreciate how chemists are able to make organic molecules and modify them in many ways to make new and useful materials such as polymers and pharmaceuticals.

SUMMER - 2

Topic name: **Chemical Analyses**

Why study this topic?

This topic will teach me how to analyse and detect specific chemicals using various qualitative test.

Topic name: **Forces and Pressure**

Why study this topic?

I will be able to appreciate how environmental conditions impact all working instruments and experiments.

Subject Intent statement

We learn science as it is interesting, exciting and relevant to our everyday lives. It will help us make sense of the world and develop skill sets that enable us to embody the Enfield way, which is to LEARN: Lead, Excel, Aspire, Stay Resilient, and Nurture.

SPRING - 1

Topic name: **Homeostasis in action**

Why study this topic?

Through studying this topic, I will learn about the importance of the hormonal system in bringing about much slower changes. This will enable me to appreciate and understand why my body behaves the way it does.

Topic name: **Energy Changes**

Why study this topic?

By learning about the concept of energy which emerged in the 19th century, I will be able to explain fascinating physics phenomena such as the work output of steam and how limits to the use of fossil fields and global warming are critical problems for this century.

AUTUMN - 1

Topic name: **Chemical Changes**

Why study this topic? Knowing about different chemical changes will allow you to predict what new substances will form and use this knowledge to develop a wide range of different materials.

Topic name: **Bioenergetics**

Why study this topic?

This topic will help me explore how plants harness the Sun's energy in photosynthesis in order to make food

123 Links to Numeracy

In Science, we use mathematics to organize and analyse data in tables and graphs, to see and make sense of patterns in the data, to represent scientific phenomena and concepts.

SUMMER - 1

Topic name: **Forces and Motion**

Why study this topic?

Through studying this topic, I will be able to make sense of how complex and advanced machinery all involve the basic laws of motion

Topic name: **Crude Oil, Fuels and organic reactions**

Why study this topic?

This topic will help me appreciate how chemists are able to make organic molecules and modify them in many ways to make new and useful materials such as polymers and pharmaceuticals.