

## 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: **Cell biology 2**

Why study this topic?

By understanding how cells work in healthy and diseased states, cell biologists working in animal, plant and medical science will be able to develop new vaccines and more effective medicines

Topic name: **Energy 1**

Why study this topic?

Energy is essential to life and all living organisms. The sun, directly or indirectly, is the source of all the energy available on Earth. Our energy choices and decisions impact Earth's natural systems in ways we may not be aware of, so it is essential that we choose our energy sources carefully

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### SPRING – 2

Topic name: **Organisation**

Why study this topic?

Understanding how the many different types of cells form tissues, organs and organs systems of a multicellular organism.

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### SUMMER - 2

Topic name: **Quantitative chemistry**

Why study this topic?

Quantitative chemistry is a very important branch of chemistry because it enables chemists to calculate known quantities of materials. It is used widely in pharmacology and industrial chemistry.

Topic name: **Electricity**

Why study this topic?

Electrical charge is a fundamental property of matter everywhere. Understanding the difference in the properties of conductors, insulators and semiconductors make it possible to create the devices that power our modern world.

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## 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.

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### AUTUMN - 1

Topic name: **Cell biology 1**

Why study this topic?

By understanding how cells work in healthy and diseased states, cell biologists working in animal, plant and medical science will be able to develop new vaccines and more effective medicines.

Topic name: **Atomic structure and the periodic table**

Why study this topic?

Electrons, neutrons and protons are the building blocks of atoms. If we know how atoms are constructed and behave, we gain a better understanding of matter in the universe.

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### SPRING – 1

Topic name: **Energy 2**

Why study this topic?

Energy is essential to life and all living organisms. The sun, directly or indirectly, is the source of all the energy available on Earth. Our energy choices and decisions impact Earth's natural systems in ways we may not be aware of, so it is essential that we choose our energy sources carefully

Topic name: **Bonding, structure and properties of matter**

Why study this topic?

This helps scientists to design and engineer new materials with desirable properties for specific uses.

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### SUMMER - 1

Topic name: **Infection and response**

Why study this topic?

Pathogens are microorganisms such as viruses and bacteria that cause infectious diseases in animals and plants. They frequently produce toxins that damage tissues and make us feel ill. The study of these pathogens is important in the development of future treatments.

## 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.