

## 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: **Types of reaction**  
Why study this topic?

Classifying chemical reactions is an extremely useful tool because it allows us to understand more about what is going on in the reaction but also gives us the ability to predict the products of other reactions. Atoms are rearranged during chemical reactions, and are not lost or gained. Chemical reactions can be represented using equations. Catalysts speed up reactions without being used up.

### SPRING - 2

Topic name: **Energy**  
Why study this topic?

Energy can be stored or transferred, but it cannot be created or destroyed. This means that the total energy of a system stays the same. The idea that the total energy has the same value before and after a change is called conservation of energy. Domestic energy (electric, gas, heating and lighting etc.) is energy used in the home. You need energy at home for cooking, heating and to power devices and appliances.

### SUMMER - 2

Topic name: **Reproduction and variation**  
Why study this topic?

The advantages of sexual reproduction: it produces variation in the offspring. The species can adapt to new environments due to variation, which gives them a survival advantage. A disease or change in environment is less likely to affect all the individuals in a population.

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### AUTUMN - 1

Topic name: **Particles**  
Why study this topic?

The particle model useful for two reasons. Firstly, it provides a reasonable explanation for the behaviour of matter. Secondly, the particle theory is used to explain the properties of solids, liquids and gases. The strength of bonds (attractive forces) between particles is different in all three states.

### SPRING - 1

Topic name: **Forces**  
Why study this topic?

Force and motion are important parts of everyday life. The lessons and activities will help you become aware of factors like friction, gravity, and magnetic force. You will also learn to describe location, understand perspective, and use simple machines to help make their work easier.

## 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.

## 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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