



Year 5  
Spring Term

## Changing Materials

In this unit, children will explore reversible and irreversible reactions including melting, dissolving, burning, mixing and cooking. They will consider applications of these to real-life and investigate things that impact the rate that these reactions take place.

### Key Vocabulary:

Soluble  
Insoluble  
Solvent  
Solute  
Dissolve  
Mixture  
Reversible  
Irreversible  
Filtering  
Evaporate  
Condense  
Separate  
Chemical  
Physical

### Key Knowledge:

- Some substances dissolve in water. This is known as water soluble.
- When a physical change takes place, a reaction is reversible.
- When a chemical change takes place, a reaction is irreversible.
- Burning and cooking are examples of irreversible reactions.
- Dissolving and mixing are examples of reversible reactions.



### What came before:

At the start of the year, the children explored different properties of materials.

In Year 4, the children learnt about the water cycle and the meaning of evaporation and condensation.

### What comes next:

- In KS3, the children will explain the behaviour of particles in solids, liquids and gases.
- In KS3, the children will explore what happens to particles during chemical changes.

### Key Skills:

- Set up and carry out a fair test by identifying and controlling variables.
- Record data over time to draw conclusions.
- Take accurate and precise measurements using a range of equipment.
- Draw conclusions by spotting patterns in data.
- Use a range of scientific equipment to separate mixtures.