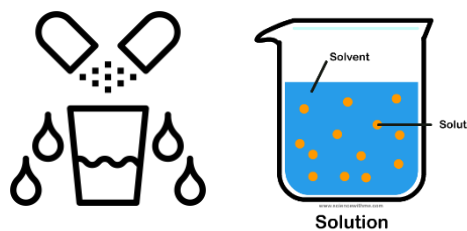


## Science – Properties and changes in materials

Year 5 Autumn 2



### Prior Knowledge

In years 1 and 2, we learnt that all matter is made from tiny particles, and that different combinations of particles and how they are arranged give each material its property. We also learned that materials have different properties, and these properties help to decide what the materials can be used for. Finally, we also learnt about the three states of matter: solid, gas, liquid, and how materials can change between these states.

### **What? (Key vocabulary)**

<b>reversible</b>	An action which can be redone
<b>irreversible</b>	An action which cannot be undone
<b>dissolve</b>	To dissolve in a liquid a solid mixes so completely with the liquid it cannot be seen. This mixture is called a solution.
<b>soluble</b>	Solids and gasses that dissolve in a liquid are soluble
<b>insoluble</b>	Solids that do not dissolve in a liquid are insoluble
<b>solution</b>	A solution is a mixture of a liquid with a dissolved solid or gas
<b>solute</b>	A solute is a solid or gas that will dissolve in a liquid
<b>solvent</b>	A solvent is a liquid that will dissolve a solid or a gas
<b>saturation</b>	A solution is saturated when no more solid can be dissolved in it
<b>crystallization</b>	The process in which crystals are formed either from something that has melted or from a solution

### **Who? (Significant People)**

**Stephanie Kwolek**

An American-Polish chemist, she invented Kevlar (an incredibly strong material used in bullet proof vests and car tyres)

**Jeffrey Karp**

A Canadian biochemist who discovered surgical glue