Key Vocabulary

Topic: Alchemy Island

Main subject: Science

Year 5

- Magnetic materials

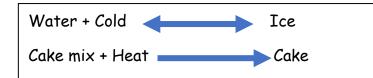
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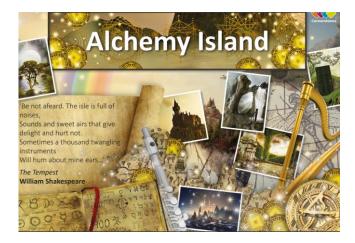


| | Reversible and irreversible changes |
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| | Chemical reactions |
| | How a periodic table works |
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| | The Periodic Table of Elements |
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| conductor | A substance that allows electricity or heat to flow through it. | |
|-----------|--|--|
| durable | Lasting a long time, without wearing out or becoming damaged. | |
| fantasy | Something imagined that is very different from real life. | |
| malleable | A material that is easily changed into a new shape. | |
| mythical | Imaginary or not real, especially in stories. | |
| potion | A liquid or substance that is believed to cure illness or have a magical effect. | |
| precious | Rare, important or valuable. | |
| property | The way a material behaves, looks and is structured. | |
| sieve | To remove large solids from a liquid. | |
| thermal | Relating to heat. | |
| x-axis | The horizontal axis on a map or graph | |
| y-axis | The vertical axis on a map or graph. | |

Irreversible and reversible reaction equations



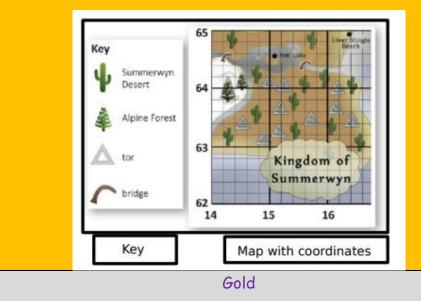


| Knowledge |
|---|
| What is alchemy? |
| An ancient study of how to turn basic metals into gold. Alchemists used metals, salts, acids and many |
| other chemicals in their attempts to make gold. They also tried to create potions that would cure all |
| diseases and allow people to live forever. This was all at a time before people understood science as |
| well as they do today. |

Maps and Coordinates

Maps have been used for thousands of years to help people find their way around unfamiliar areas. Coordinates are used to pinpoint a specific location on a map and are usually written in brackets. The coordinates (156644) show the position of the bridge on the map below. The first three numbers refer to the position along the x-axis of the map, and the second gives the location along the y-axis. Symbols on the map show particular features of the area. Maps

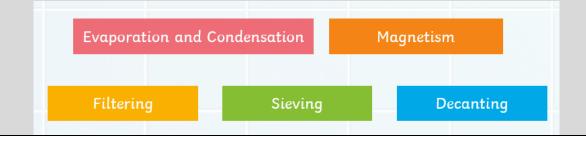
have a key that lists the symbols and what each of them represents.



Gold is a very precious metal that has been valued since ancient times. Gold is a shiny, colour, it doesn't tarnish, it is easily shaped and it conducts electricity, so it is used to decorative objects, jewellery, coins and electrical components and mobile phones. Go found around the world and is usually mined from the Earth's crust. However, tiny flak also be found in rivers and streams and removed using a sieve called a pan.

Processes to separate materials

There are several different ways of separating mixtures. The best process to use depends on the type of mixture you are separating.



Summer 2

What I should already know

- Solids, liquids, gases
- Some materials and their properties
- Human and Physical features

will know by the end of this unit

ntours on a map

• How to separate materials by sieving, filtering and decanting

• 6 figure grid references



Contours on a map to show hills and slopes