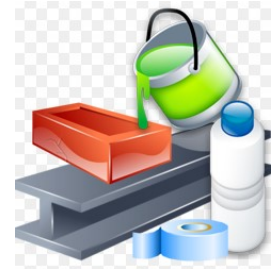


## Science: Properties of changes and materials

- ◆ A property is a characteristic or trait that you can use to describe matter by observation, measurement or combination.
- ◆ There are various properties, such as; state, transparency, hardness, electrical conductivity and magnetism.
- ◆ Mixing materials together forms a mixture where two or more substances are physically but not chemically combined and can be separated by physical methods.
- ◆ Mixtures can be separated through concepts such as; sieving, filtering and evaporating.
- ◆ If a solid dissolves in the liquid, a solution is formed.

## Properties of changes



Dissolving solid into a liquid



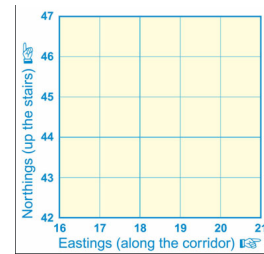
## Vocabulary

properties	hardness
gas	electrical
materials	conductivity
matter	magnetism
observation	substances
measurement	combined
combination	separated
state	solution

## Geography: Geographical Skills

- ◆ Co-ordinates are a set of numbers that specify and identify a place on a map.
- ◆ Co-ordinates also can help you to plan routes, as you can easily specify where you are talking about, how to interpret locations on a map and plot these.
- ◆ You can also identify geographical features using grid references.
- ◆ There exists four and six figure grids references to locate features on a map.
- ◆ You will be identifying geographical features using grid references of the Alchemy Island map.

## Co-ordinates



## Locating features on a map Grid references



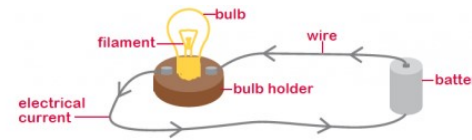
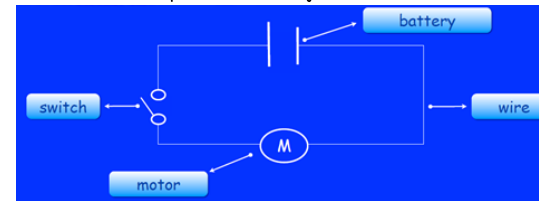
## Vocabulary

maps	co-ordinates
country	North
compass	East
grid	South
reference	West
a-axis	mountains
y-axis	the Alps

## Design Technology: Key Knowledge

- ♦ Electricity is an energy. This energy can be used to power electrical systems through circuits.
- ♦ A simple series circuit is a circuit for electricity to flow around.
- ♦ A series circuit is comprised of switches, bulbs, buzzers and motors.
- ♦ You can build a homemade circuit using card, copper ribbon, coin batteries and LED light bulbs.
- ♦ Conductive materials are needed for a circuit. A conductor is an object or type of material that allows the flow of charge in one or more directions.

## Components of a circuit



## Vocabulary

technical	conductor
investigate	battery
systems	switch
circuits	prototype
materials	accurate
buzzers	motor

## Religious Education: Sikhism

- ♦ Sikhism is a monotheistic religion, meaning a religion that believes in one god. The followers are called 'Sikhs' and their holy book is the Guru Granth Sahib.
- ♦ The Guru Granth Sahib teaches Sikhs how God wants them to live their lives. They show it great respect as they believe it is the Sikh's last Guru (great teacher).
- ♦ Popular Sikh stories include; Guru Nanak and the Jasmine Flower, Bhai Lalo and Malik Bhago, Vaisakhi—Birth of the Khalsa and Guru Nanak and the Cobra.

## Khanda (Sikh symbol)



Guru Grant Sahib

## Vocabulary

Sikhism	Holy
monotheistic	Guru Granth Sahib
Khalsa	Guru
God	Guru Nanak
great teacher	

## Material World: Crash Course



## 4 figure grid references



## Electrical circuits: series and parallel



## What is Sikhism?

