# Alchemy Island

## Year 5

# Spring Term 1

### 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.

### 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.

### Properties of changes



Dissolving solid into a liquid



### Vocabulary

properties

gas

materials

matter

observation

measurement

combination

state

hardness
electrical
conductivity
magnetism
substances
combined
separated
solution

### 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 switch motor bulb holder electrical current

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.



# Vocabulary Sikhism Holy monotheistic Guru Granth Sahib God Guru great teacher Guru Nanak

Material World: Crash Course



4 figure grid references



Electrical circuits: series and parallel

Guru Grant Sahib



What is Sikhism?

