

We Are Detectives

This is a fun topic that will broaden your scientific view of the world around you as you learn about electricity and changing states.

Science

I can associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.

I can recognise some common conductors and insulators, and associate metals with being good conductors.

I can compare and group together everyday materials on the basis of their properties.

I can give reasons, based on comparative testing, for the uses of everyday materials.

I know that some materials will dissolve in liquid to form a solution, and can describe how to recover a substance from a solution.

I can use knowledge of solids, liquids and gases to decide how mixtures might be separated.

I can demonstrate that dissolving, mixing and changes of state are reversible changes.

I can explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible.

DT

I can research computer-controlled models and create a design for my gadget and a logo.

I understand how key inventors and inventions relate to my product.

I can make a detailed, step-by-step, plan using sketches and diagrams, showing how my gadget will work.

I can choose and use tools and equipment to help me cut and join materials accurately, as well as connect electrical components.

I can use a computer control program to operate my product.

I can test my design, discuss what worked well and how I could improve it next time and listen to and respond to the feedback of others.

Spanish

I can name some countries that speak Spanish.

I can talk about how we are different and yet the same in Spanish.

I can talk about how to protect the planet in Spanish.

Music

I can clap a variety of rhythms in the song.

I can describe the musical mood, dimensions and structure of the song.

I can perform an accompaniment to the song using percussion instruments.

RE

Identify the common features and significance of both religious and non-religious gatherings.

Explain the importance of place, people and practice in the context of gatherings.

Articulate the importance of Jerusalem to Jewish people.

Discuss why the Dome of the Rock is important to some Muslim people.

Explain the significance of various pilgrimage sites in different religious worldviews.

Hillstone Life Skills

Understand that education is a human right and why education is important.

Understand some environmental issues relating to food and food production.

Understand the importance of caring for others and that we all have a responsibility to care for things and people around us.

Understand what prejudice and discrimination are and why and how they should be challenged.

Understand the value of diversity in society, including significant individuals.

Computing

I can explain that internet devices have addresses.

I can describe how computers use addresses to access websites.

I can identify and explain the main parts of a data packet.

I know how to access shared files stored online.

I can identify different ways of working together online.

I can explain the different ways in which people communicate.

I can compare different methods of communicating on the internet.