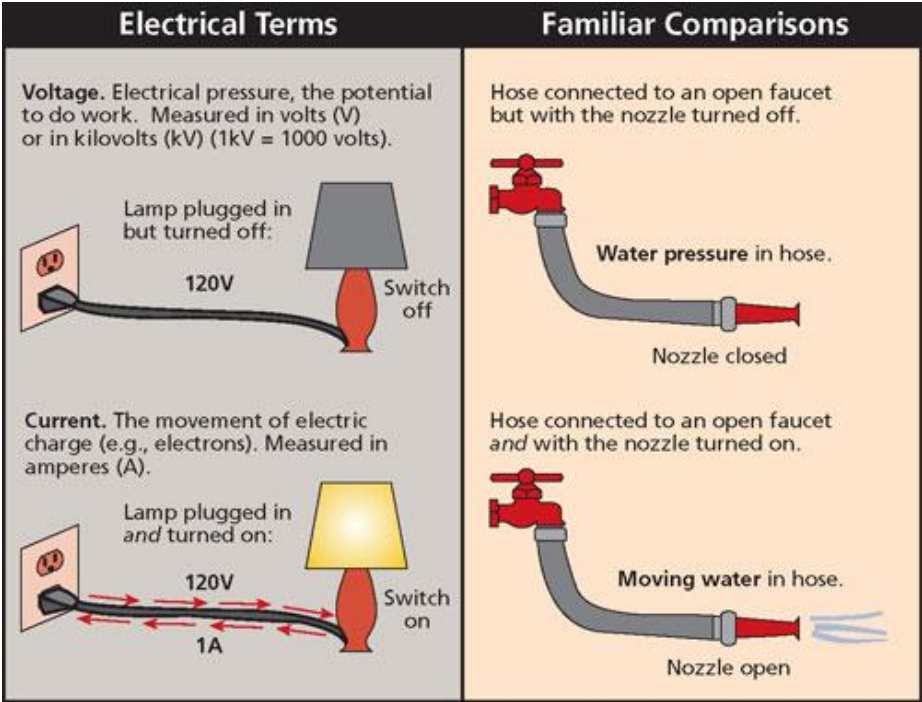
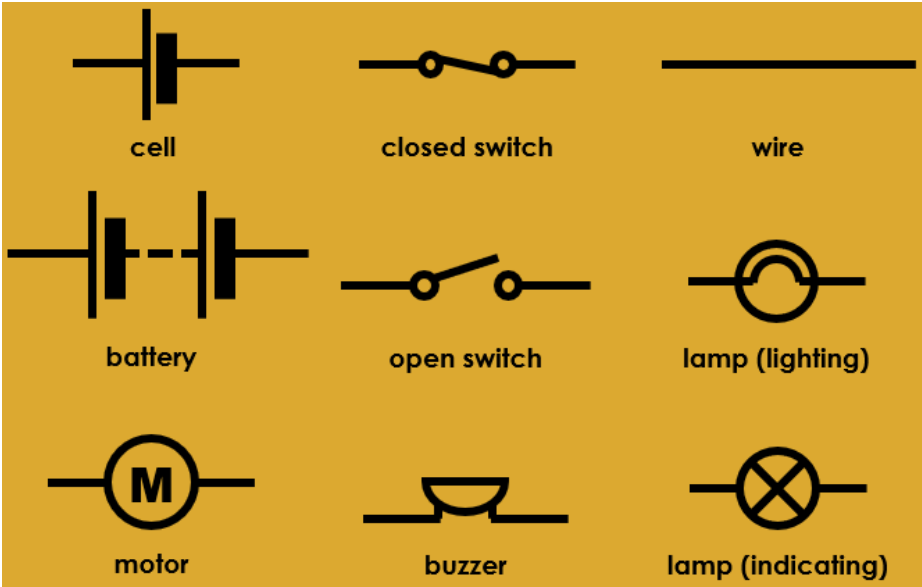


By the end of the unit, pupils will be able to answer...

- What is voltage and how does it affect a circuit?
- How can you make a bulb/buzzer/motor brighter/louder/faster?
- How do we represent the components of a circuit in a diagram?

Vocabulary	Definition
battery	a device that makes electricity by using chemical reactions
bulb/lamp	a device made of rounded glass that is used to create light
buzzer	an electrical device that signals by buzzing
cell	a device that makes electricity by using chemical reactions
circuit diagram	an image using circuit symbols that represents an electrical circuit
circuit symbols	pictures used to represent different electrical devices and components
component	a part of something
motor	a machine that causes motion
switch	a device that opens and closes an electrical circuit
voltage	the force of an electric current as measured in volts

Investigate!	
- Explain how a circuit operates to achieve particular operations, such as to control the light from a torch with different brightnesses or make a motor go faster or slower - Make circuits to solve particular problems, such as a quiet and a loud burglar alarm	- Explore the effect of adding components to a circuit - Explore the effect of adding batteries/cells to a circuit - Carry out fair tests exploring changes in circuits - Make circuits that can be controlled as part of a DT project



ELECTRICAL SAFETY TIPS

FOR KIDS

Electricity is helpful. It provides energy that we use to light our homes and operate lots of other things. But electricity can also be dangerous. Lots of people are hurt each year in electrical accidents. We could avoid the accidents by following these simple safety tips...

NEVER stick fingers, toys or other objects into an electrical outlet. You might get hurt by electricity.

NEVER place a hair-dryer, radio or other electronics near the bathtub or shower. Electricity and water are dangerous partners!

NEVER pull a plug from an outlet by its cord. Electricity could jump from the cord and give you a nasty zap.

NEVER place your drinks on top of your video games or other electronics. They could easily spill, and get you zapped by electricity.

NEVER climb trees near power lines. You might touch one by mistake and get zapped.

STAY AWAY from places marked with warning signs. These places are very dangerous, even for adults!

Anytime you need to use something that needs electricity, **ask an adult for help!** Remember, you can never be too safe!