

Lesson 7:
Electrical safety



Part of Energy Queensland

ENERGY DETECTIVES



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Today's task

In this lesson we are going to explore how to be safe with electricity!



Learning intention

By the end of this lesson, students will be able to:

- Identify electrical devices (loads) in home and school
- Describe how electrical energy transforms into other forms
- Recognise potential electrical hazards and explain how to stay safe

Safety Hero Booklet - Part 1

In your Safety Hero booklets, look around the classroom and draw 3 items that use electricity.

Next to your picture:

- What is the item?
- What form of energy does the item provide? (e.g. light, sound, movement)
- Do you think the item is safe?
Why/why not



Identifying Electrical Hazards



In pairs, discuss what is wrong with each picture

- Why are each of these situations dangerous?
- How can we fix or avoid these hazards?



How to improve electrical safety

There are lots of different ways to make sure we stay safe with electricity in our community (remember these for later!):

- Use insulators to protect wires and devices
- Avoid water near electrical devices
- Don't overload power points
- Keep cords tidy and undamaged
- Regular safety checks at home and school





Safety Hero Booklet – Part 2

In your Safety Hero booklet, complete the pages identifying and describing why different electrical set ups might be unsafe.

Classroom Safety Assessment



Complete a classroom safety assessment, checking different appliances and electrical sockets to see how safe they are. On the worksheet, suggest how the safety of each could be improved!

Do not touch any of the items and sockets!

You're well on your way to becoming a Safety Hero!

Mission report!

In a yarning circle, discuss the results of your safety assessment:



Were there any items
or plugs that were
unsafe?



What made you think
they were unsafe?



How could we
improve the electrical
safety of the
classroom?

