

Get Ratty!



A rat trap has been invented which sends you an email message when it traps a rat!

■ As soon as a rat enters the trap its weight presses down on a pressure sensitive pad which operates a switch.

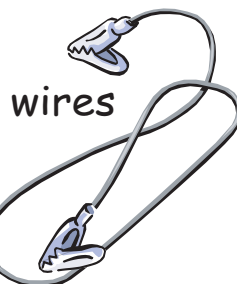
Don't go through that door or you'll be in trouble!

■ The doors of the trap then close and carbon dioxide gas is released into the trap to kill the rat.

■ The trap then sends you an email or text message to say a rat has been caught.



Work together to make a simple circuit to show how the trap might work.



wires



switch

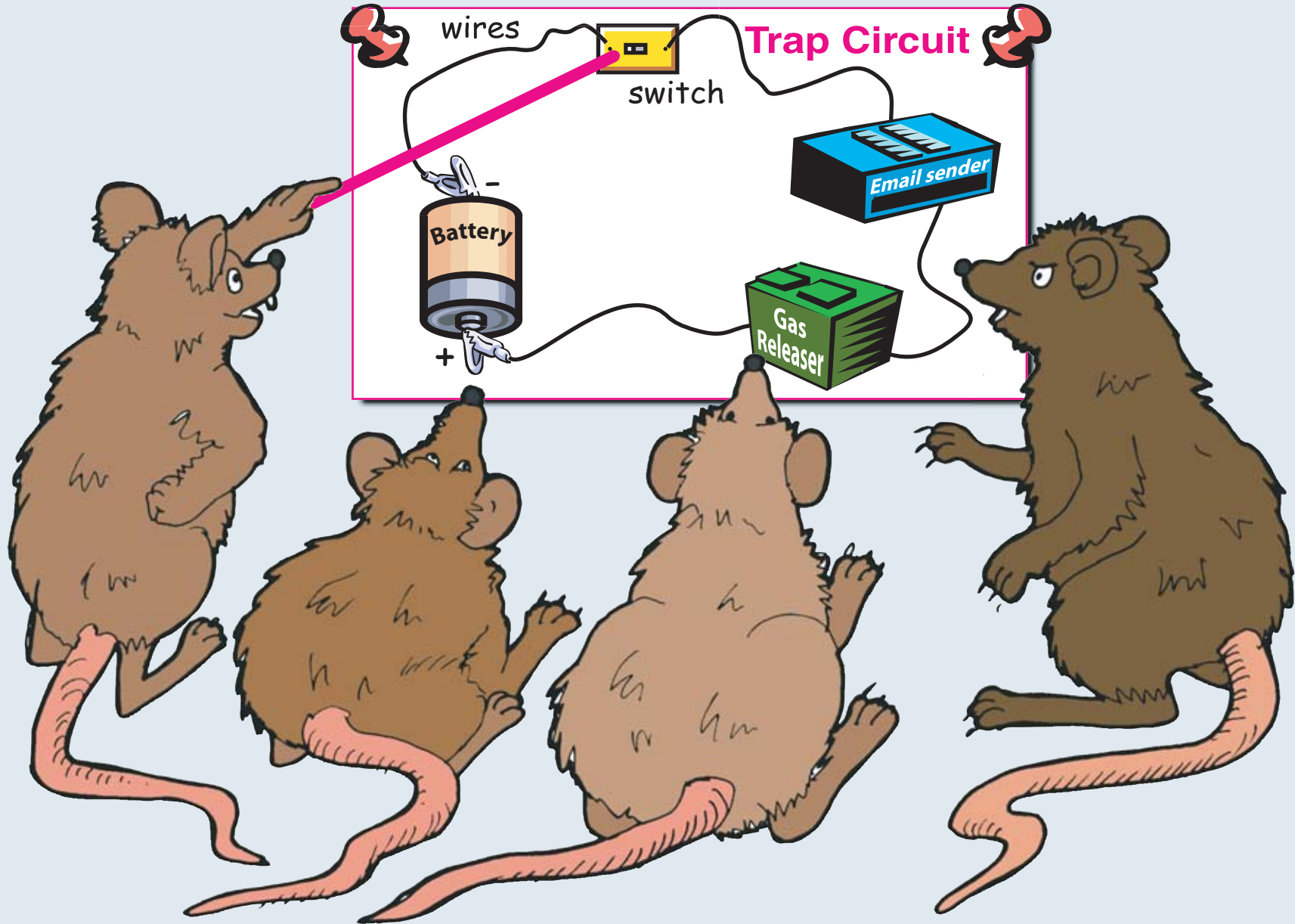


Battery



Get Ratty!

The rats are looking at a circuit to find out how the new trap might work.



Protect a pet

Work in pairs to make a circuit that contains a bulb and a buzzer. Then try to find out how you could:

- make the bulb shine brighter.
- make the buzzer buzz louder.

Discuss whether you could change the circuit to:

- make the bulb shine less brightly.
- make the buzzer buzz more quietly.

Make or draw the modified circuits.

Now that you've found out how rats are being caught ...can you design a device that uses a circuit to help animals?

- What kinds of things containing electric circuits could help protect animals?
- Make a list of all the things you think of.
- Choose one or two of your ideas and experiment with making the circuit. Can you explain what is happening in the circuit?
- Present your ideas to others.

