



COUNTIESPOWER



**POWER
IT UP**

countiespower.com

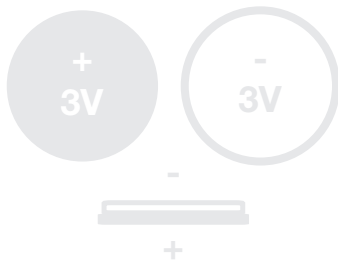
EVERY CIRCUIT TELLS A STORY...

There are six Counties Power pictures to complete. Behind each picture scene are guidelines for you to create a paper circuit. Once made, the lights or buzzer will turn on.

Check out each scene coming to life.



Stick the LED bulbs and buzzer in place using sticky tape. These symbols will tell you what you need to complete each circuit:



3V Coin Cell Batteries



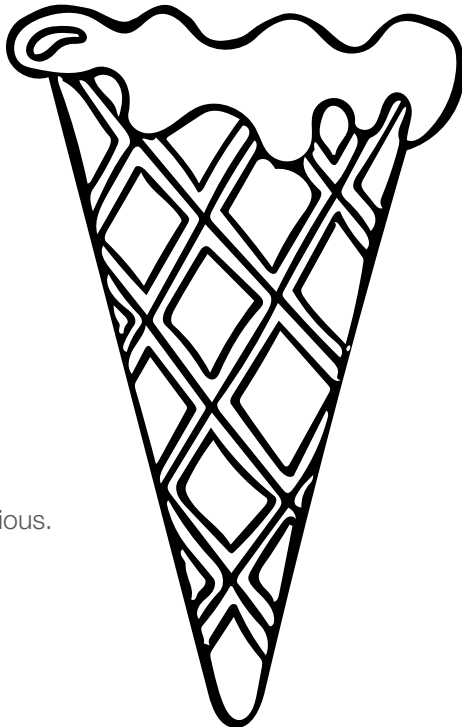
LED Bulb



Buzzer



Switch



Make the Pokeno
ice cream look delicious.



Complete this **simple circuit** to make the cherry on top of the ice cream glow.

You will need:

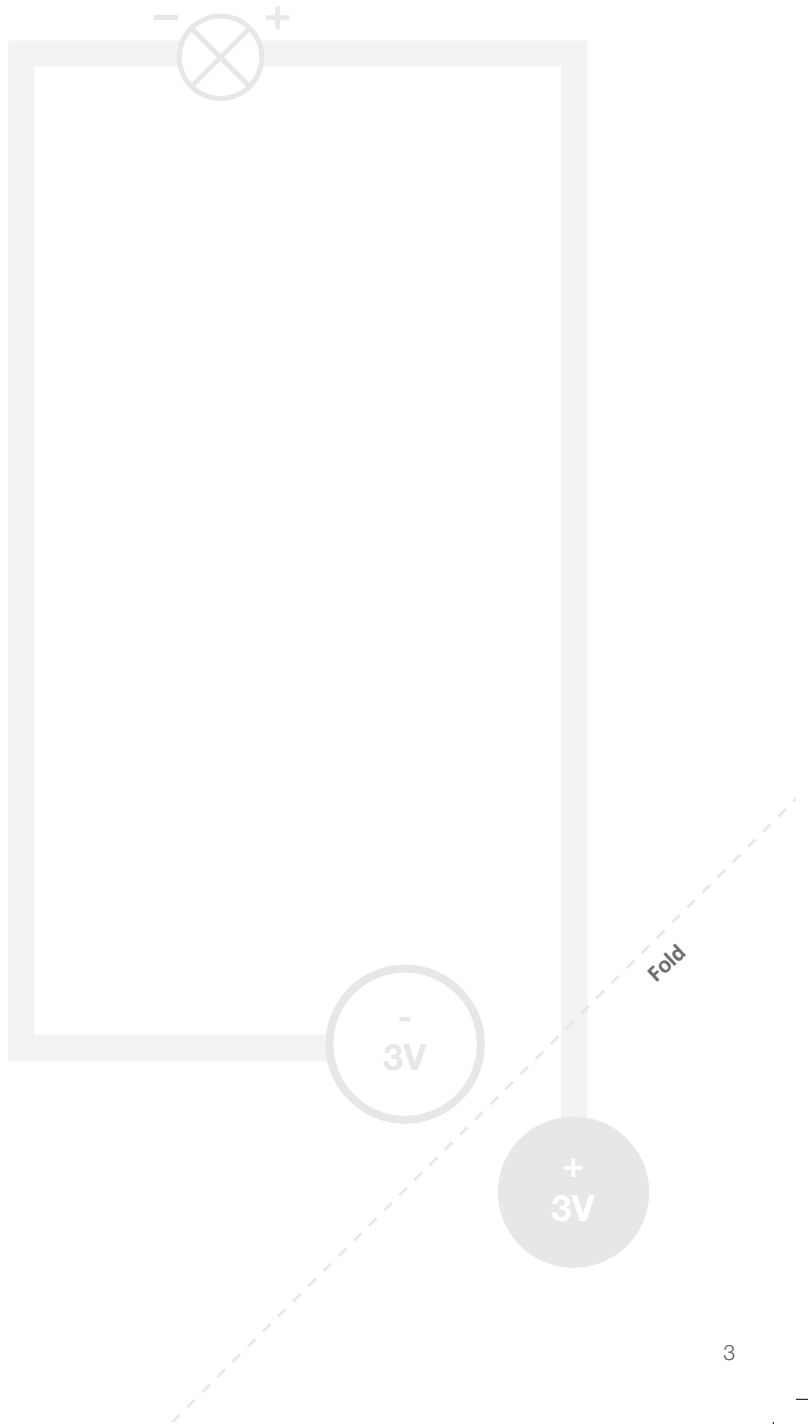
1 x



1 x

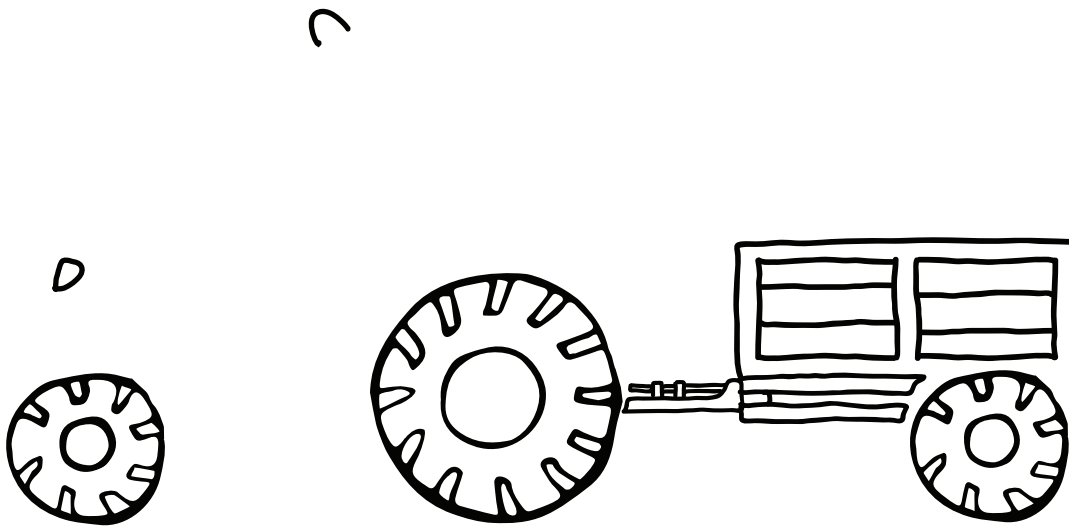


Copper Tape





Draw the tractor ready to tow the
carrots to the packing shed.





Complete the **series circuit** to turn the tractor's light on.

You will need:

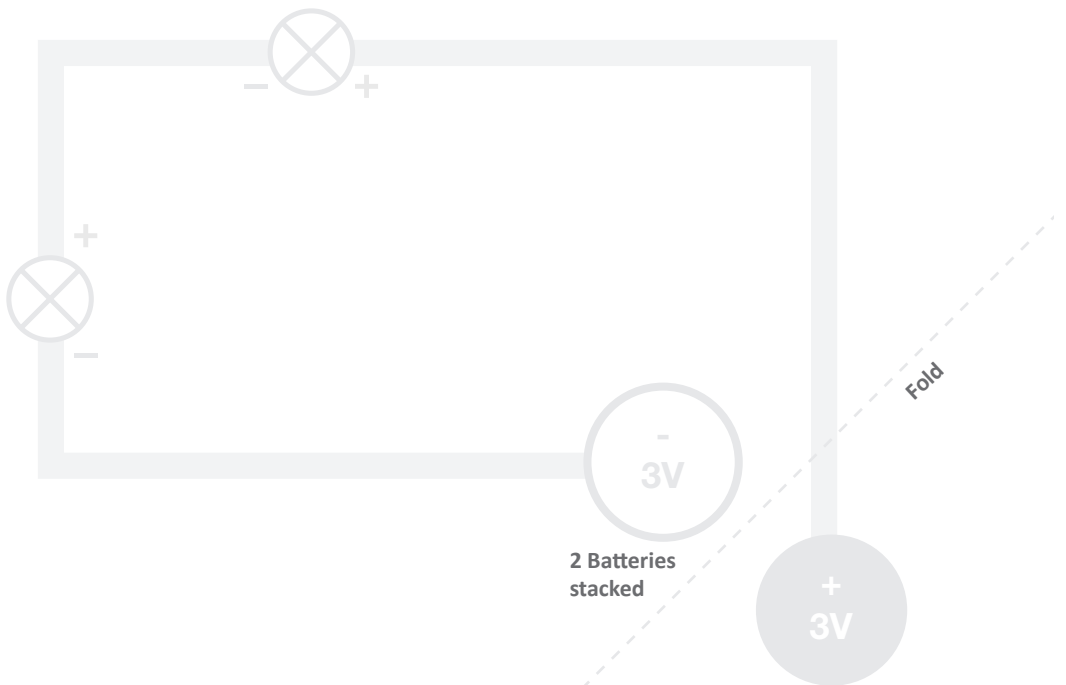
2 x

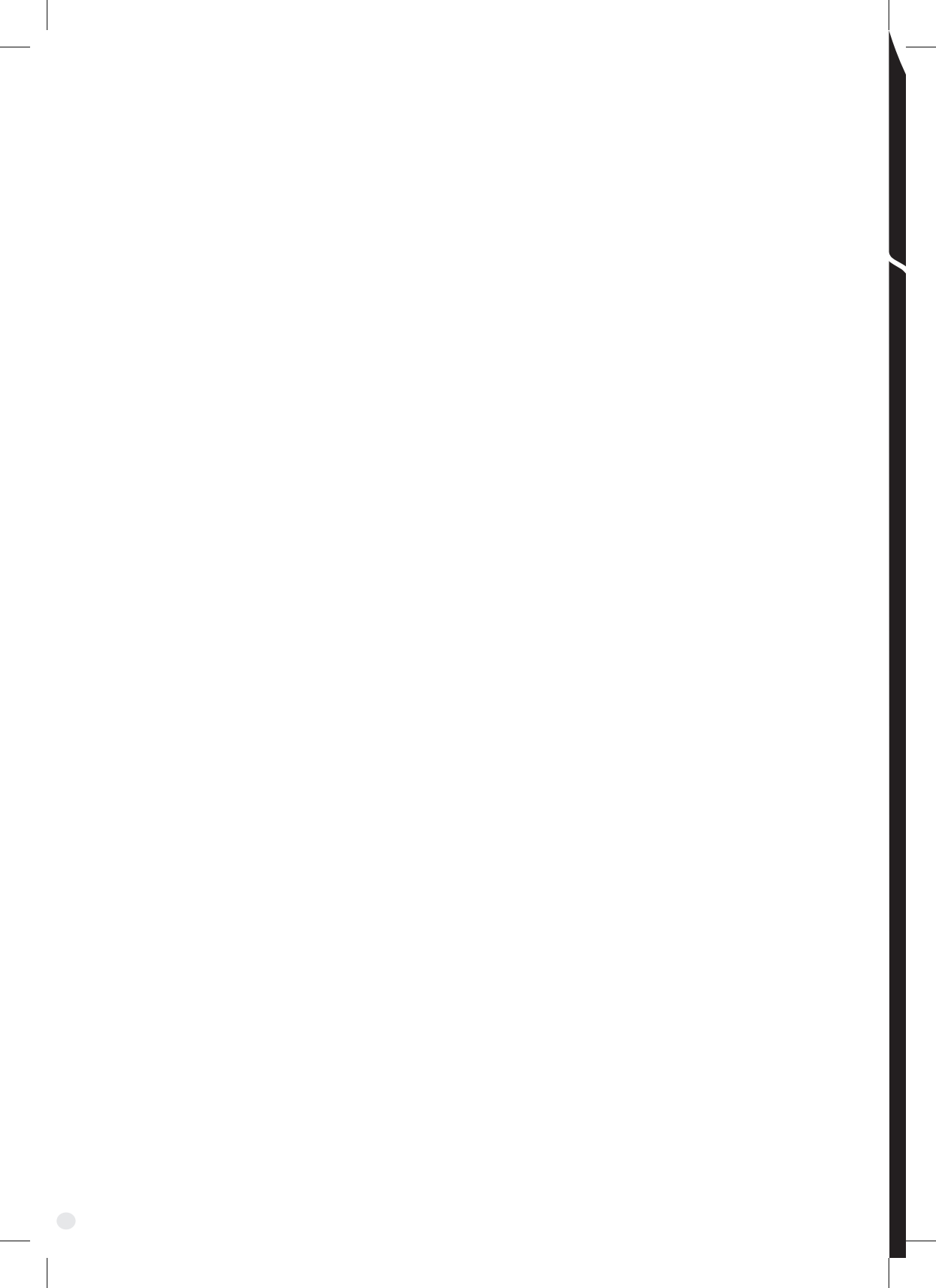


2 x



Copper Tape

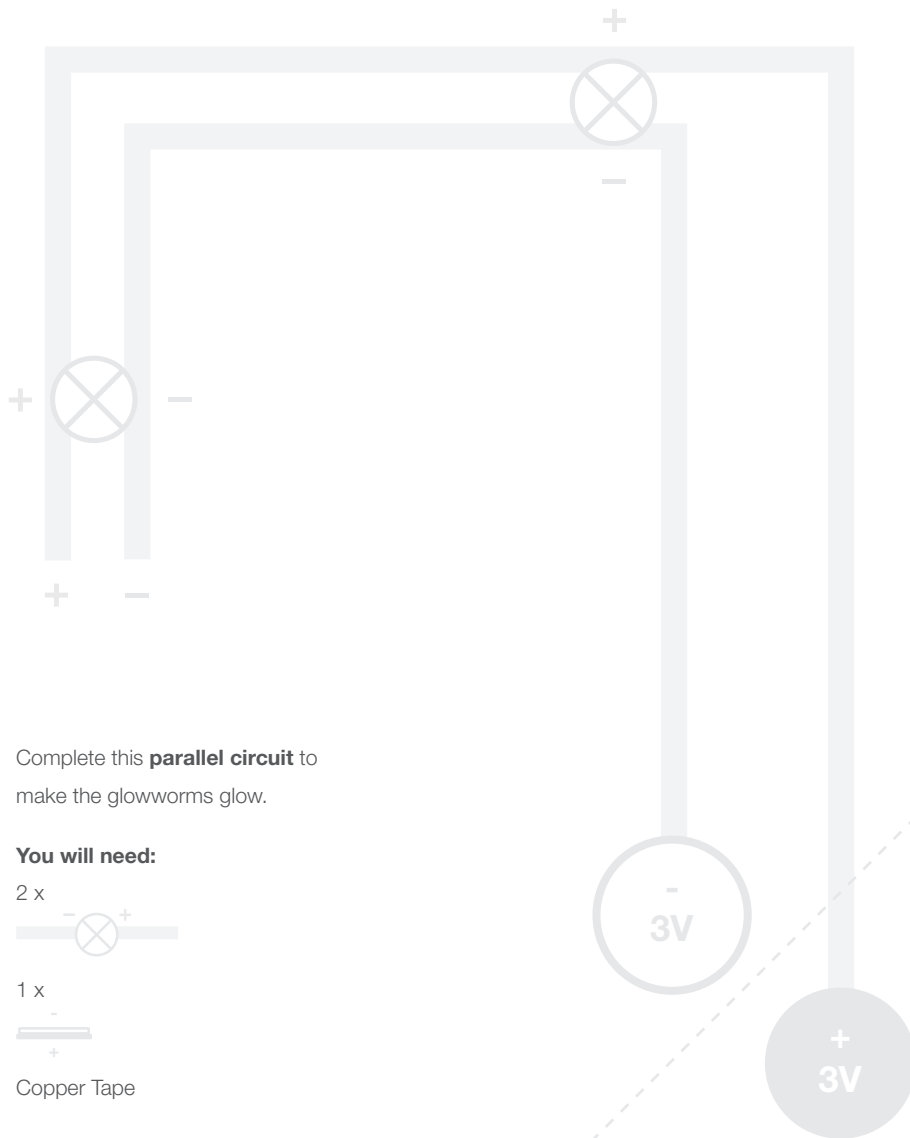




Draw some tourists visiting the glowworms at Nikau Caves.







Complete this **parallel circuit** to make the glowworms glow.

You will need:

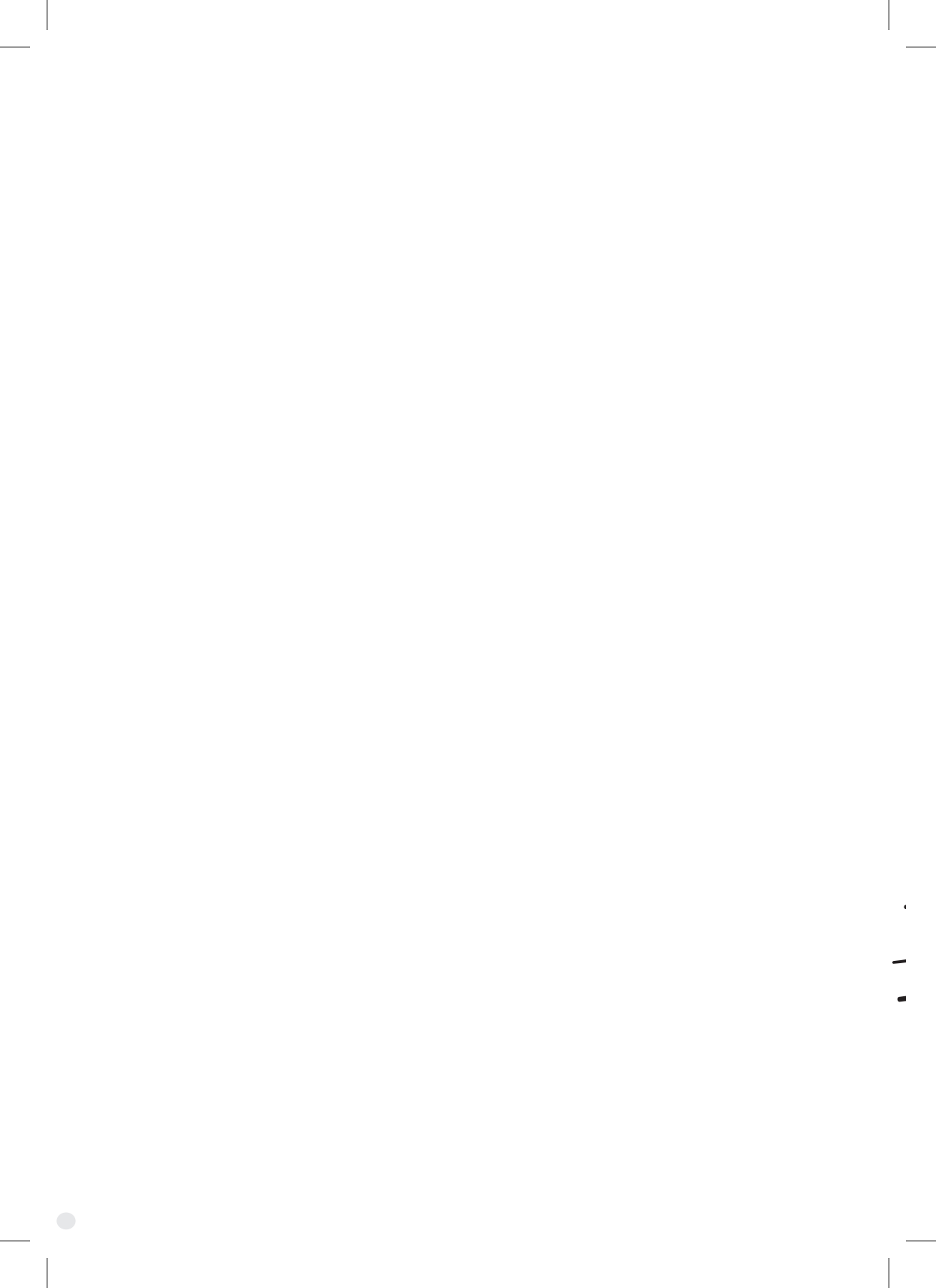
2 x



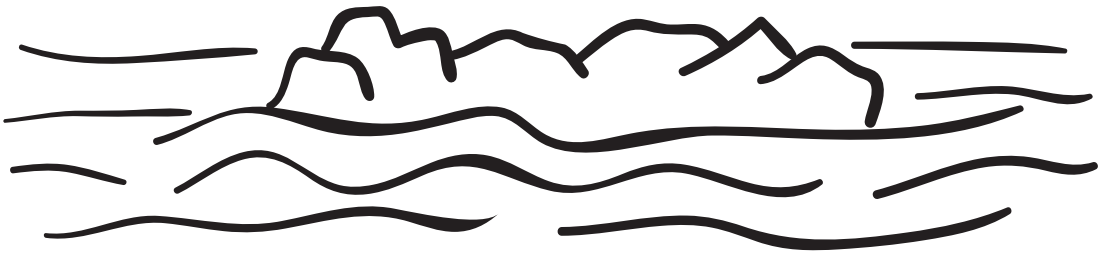
1 x



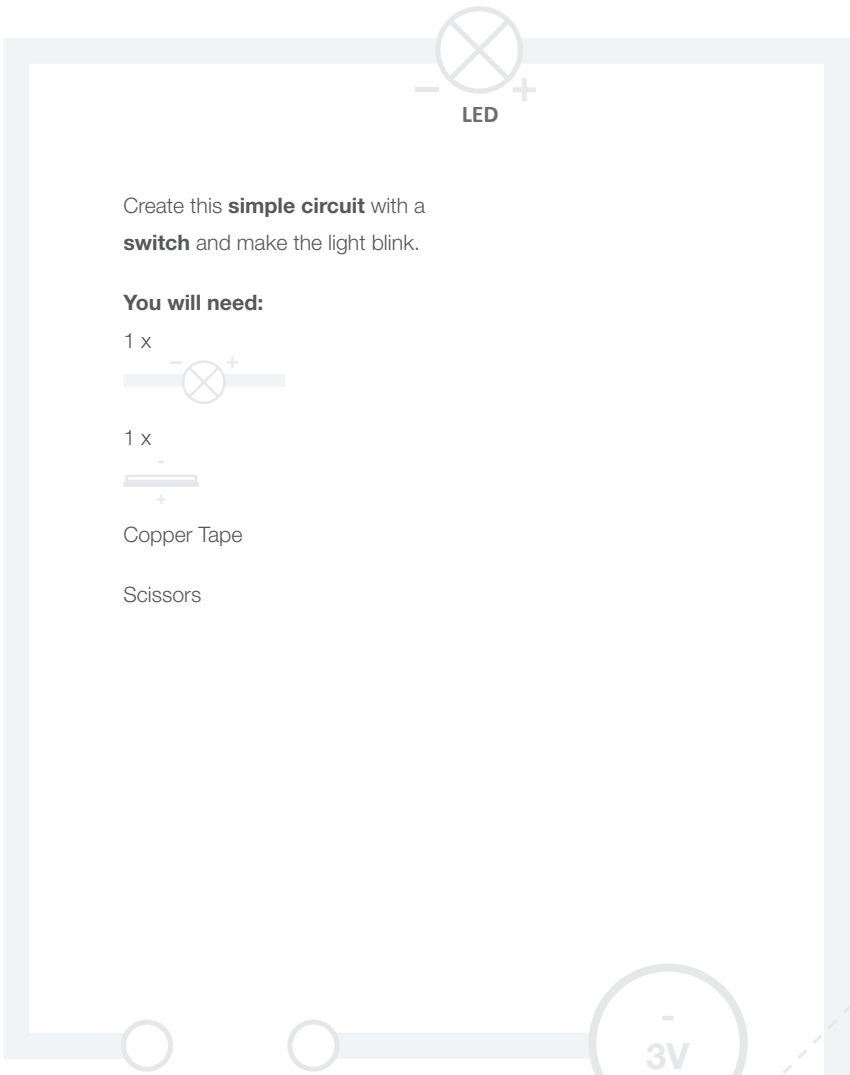
Copper Tape



Complete the
Manukau Heads
Lighthouse.







Create this **simple circuit** with a **switch** and make the light blink.

You will need:



Copper Tape

Scissors

Fold

-
3V

+
3V

Fold

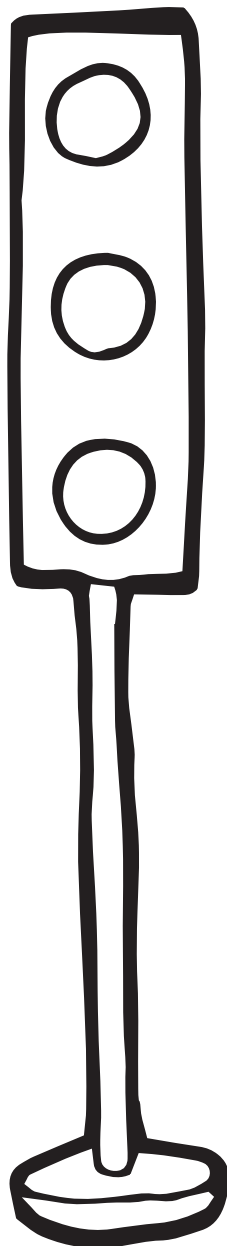
Cut

Cut





These are the lights at the intersection of Manukau Road and Custom Street, Pukekohe. A car is waiting for the lights to change.





Complete this **series circuit** and turn the traffic lights on.

You will need:

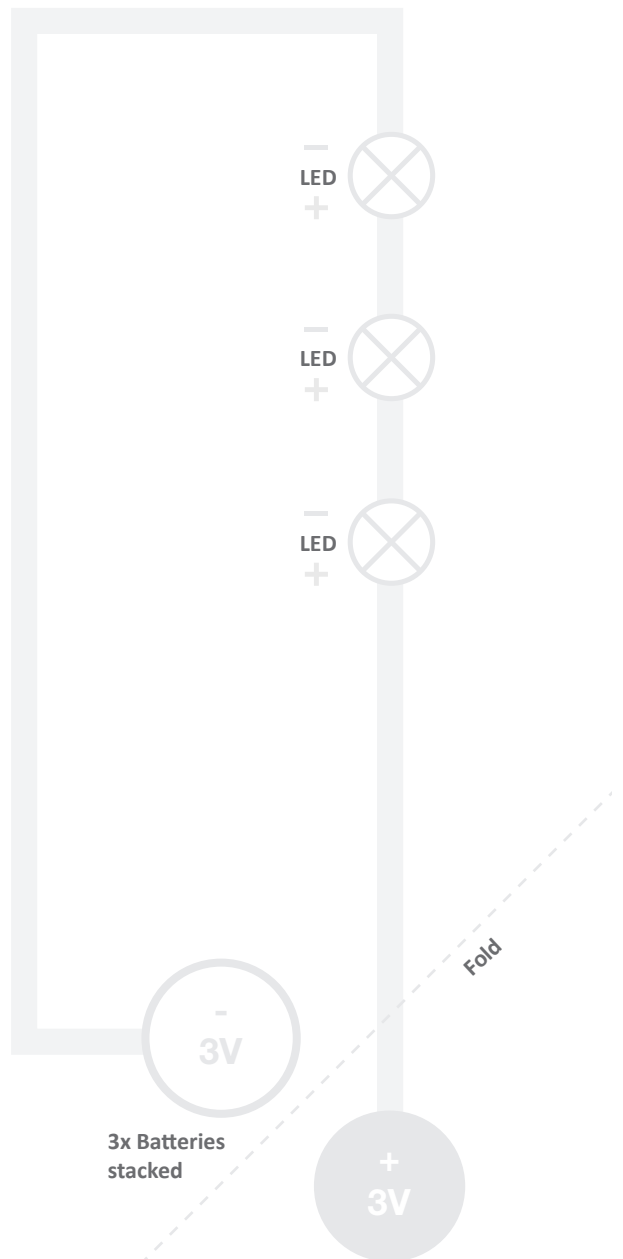
3 x



3 x

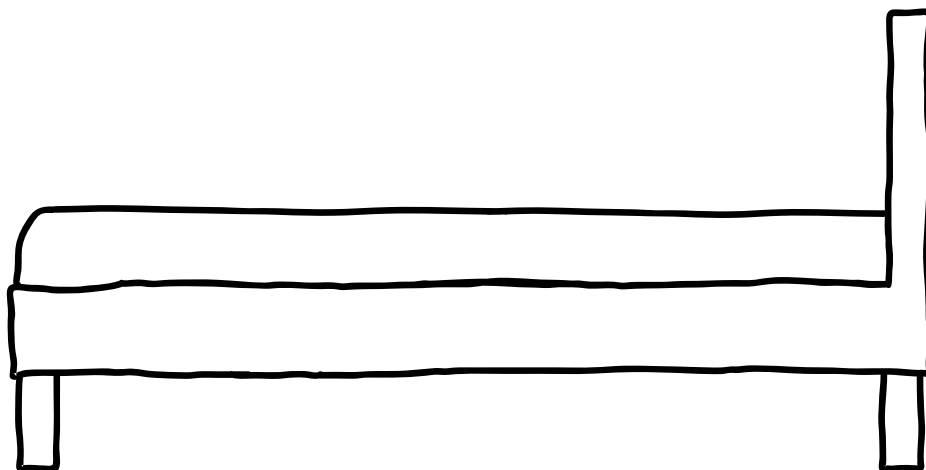
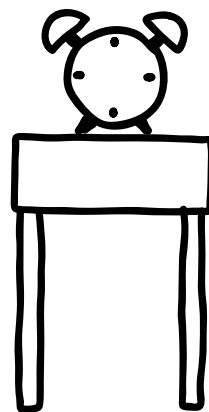


Copper Tape





The farmer is asleep.
What time will he have to
get up to milk the cows?





Complete this **simple circuit** with a **buzzer** to wake the farmer up.

You will need:

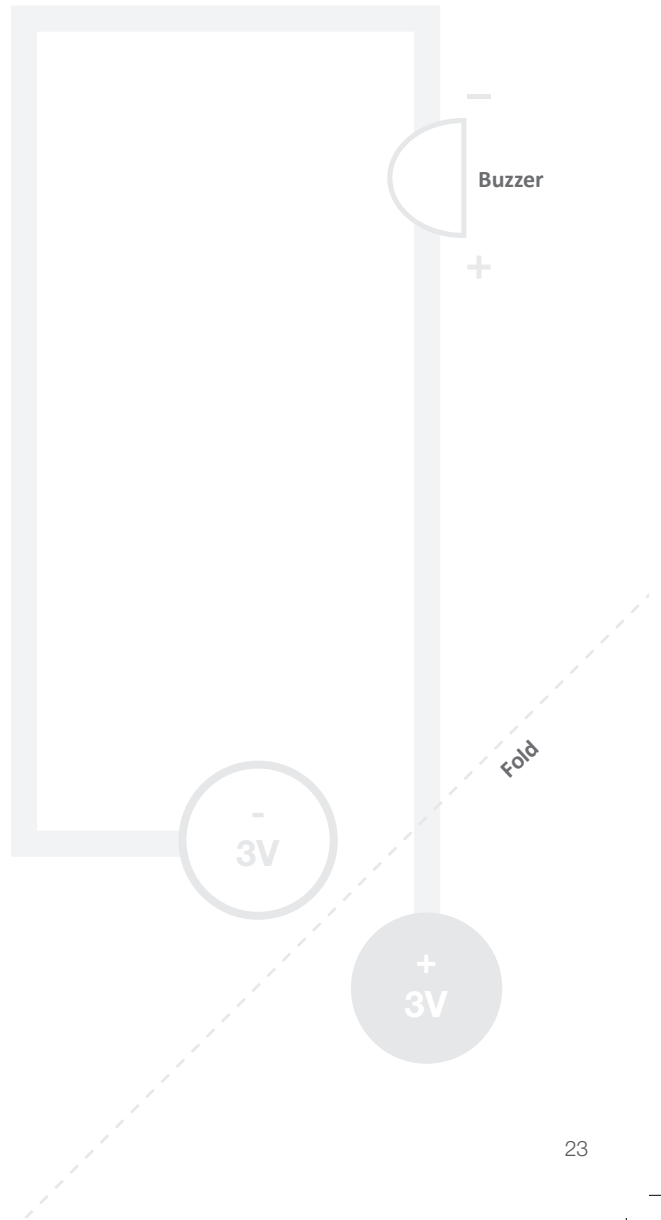
1 x



1 x



Copper Tape





Draw your own scene with
1, 2, or 3 lights.



Use your knowledge of paper circuitry to create your own circuit.



Fold



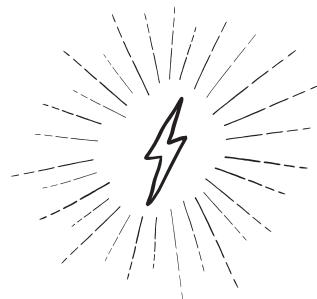
ELECTRICITY CAN BE SNEAKY. STAY SAFE IN & AROUND YOUR HOME.

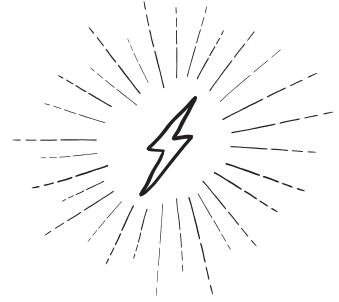
INSIDE

- Throw away cords that have wires sticking out of them.
- Always turn off a powerpoint at the wall before plugging in or unplugging a device.
- Never put electronic things near water.
- Do not touch anything electrical if you are wet.
- Never let a cord touch a heater or element.
- Never put knives in the toaster.
- Do not put fingers or anything else into sockets.
- Never put a battery in your mouth.

OUTSIDE

- Never build huts in trees that are near power lines.
- If balloons or kites get stuck in power lines, do not touch them.
- Check where the power lines are when carrying something tall.
- Never sit on or touch electrical boxes.
- In an emergency we never touch anything or anyone touching a power line or electrical wire.





**Your child has been learning about circuits
as part of an interactive science programme made available
by your local lines company, Counties Power.**

**Part of their learning has been to understand how
electricity flows. Extend the learning at home by talking
about the safety messages inside. The safety checklist gives
you a range of things to identify both inside and outside
your home. These are practical reminders for you and
your whanau about the power of electricity.**

*Batteries can be dangerous.

Please keep the coin cell battery away from young children.



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