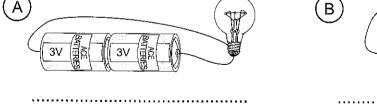
Burning Out Components

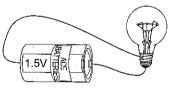
Too much <u>power</u> (too high a voltage) can cause a component to <u>burn out</u>. This is when a component gets <u>too hot</u> and <u>stops working</u>.

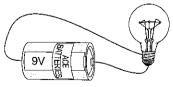
Fill in the gaps in the sentences below about why bulbs burn out . Use words from on the bulb.	brighter powerful will
When you connect a more cell in a	too high burn out
circuit with a bulb, the bulb will glow	. won't dimmer alow brightly
But if the cell's voltage is,	too low
the bulb gets really hot and will	9as
The bulb work again after that.	The state of the s
Motors can also burn out. Put a tick (✔) next to any sentences below	w that are true .
You can speed up a motor by using a cell with a lower voltage.	
	SUPER
If a motor burns out it will still work.	200V ACE MOTOR
	Use words from on the bulb. When you connect a more

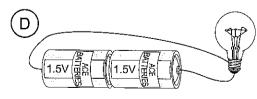
Here are some circuits that contain 3V bulbs.
 Write 'glows' or 'burns out' to describe what the bulb will do in each circuit.

3V bulbs burn out at voltages higher than 3V.









INVESTIGATE

Have a look at home for different objects that use batteries. What do you think would happen to each object if the batteries in them had voltages that were too high?