

**Science - Year 6**

**Electricity – Block 6E**

# **Electric Celebrations**

Session 2

Resource pack

## 'What if' cards

### Bulb investigations

What happens to the brightness of a bulb if I increase or decrease the number of bulbs in a circuit?

What happens to the brightness of a bulb if I increase or decrease the length of the wires in the circuit?

What happens to the brightness of a bulb if I increase or decrease the thickness of the wires in the circuit?

What happens to the brightness of a bulb if I increase or decrease the number of cells/battery in the circuit?

What happens to the brightness of a bulb if I increase or decrease the voltage of the cells/battery in the circuit?

## 'What if' cards

### Buzzer investigations

What happens to the volume of a buzzer if I increase or decrease the number of bulbs in a circuit?

What happens to the volume of a buzzer if I increase or decrease the length of the wires in the circuit?

What happens to the volume of a buzzer if I increase or decrease the thickness of the wires in the circuit?

What happens to the volume of a buzzer if I increase or decrease the number of cells/battery in the circuit?

What happens to the volume of a buzzer if I increase or decrease the voltage of the cells/battery in the circuit?

## 'What if' cards

### Motor investigations

What happens to the speed of a motor if I increase or decrease the number of bulbs in a circuit?

What happens to the speed of a motor if I increase or decrease the length of the wires in the circuit?

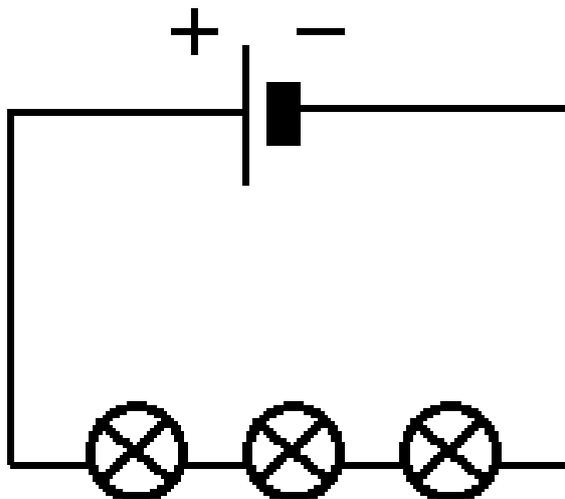
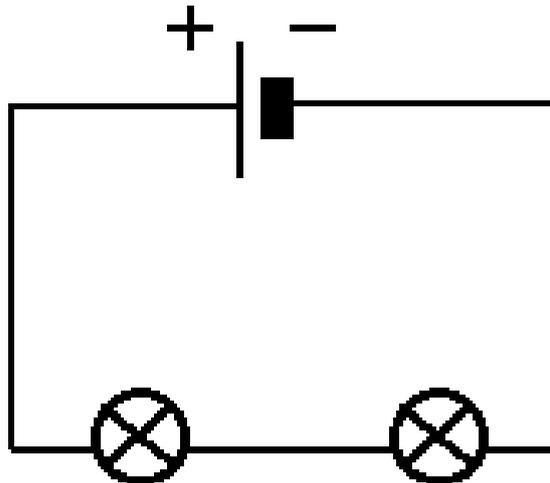
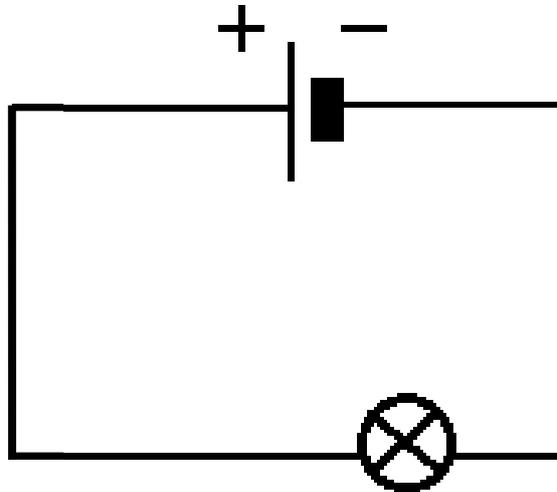
What happens to the speed of a motor if I increase or decrease the thickness of the wires in the circuit?

What happens to the speed of a motor if I increase or decrease the number of cells/battery in the circuit?

What happens to the speed of a motor if I increase or decrease the voltage of the cells/battery in the circuit?

## Sample circuit diagrams

*What happens to the brightness of a bulb if I increase or decrease the number of bulbs in a circuit?*



## Images of 'light decorations'

*Encourage children to research more ideas online*



