

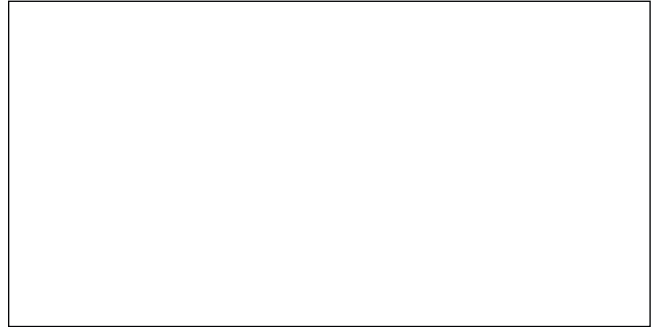
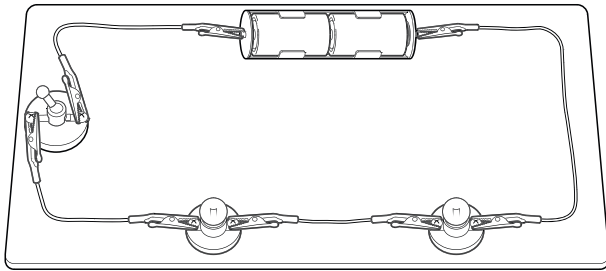


Name: ..... Form: .....

See pages 8 and 9 of *Changing circuits*

# Making bulbs brighter and dimmer

**Bulbs get brighter if they have more voltage, and dimmer if they have to share the voltage with other components.**



**Q1.** In the space on the right, draw a circuit diagram of the circuit shown on the left.

**Q2.** (i) How could you make the bulbs in the circuit shine more brightly?



.....

(ii) How could you make the bulbs shine more dimly?




.....

**Q3.** What kind of wires use almost no electricity?  .....

**Q4.** Imagine that a bulb was taken out of the circuit in the picture and a long coil of wire was put in its place. How would the wire affect the way the remaining bulb shone?



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**Q5.** What is the coil of wire in a light bulb called?  .....

**Q6.** (i) The bulbs in the diagram are in series. What does this mean?



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(ii) How would the bulbs shine if a third bulb was added into the circuit between them? Explain your answer.



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