



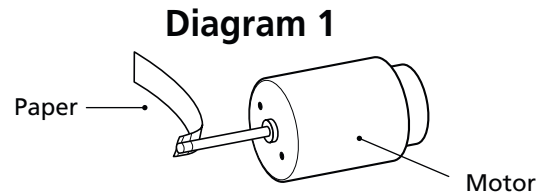
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Based on pages 10 and 11 of *Changing circuits*

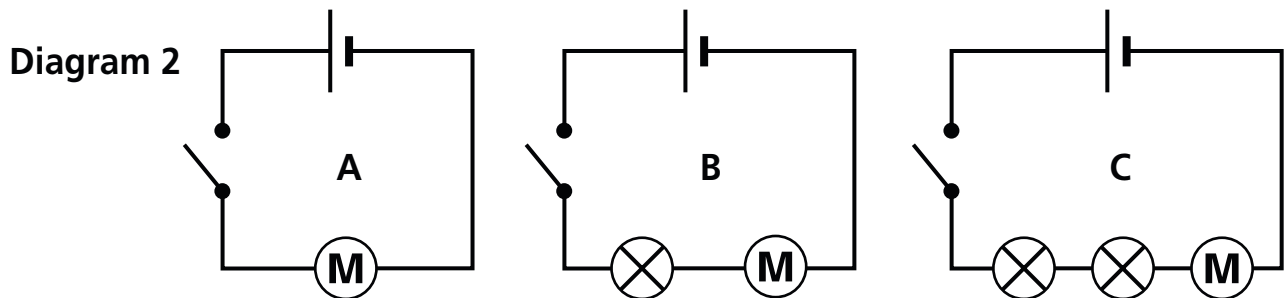
# Controlling the speed of a motor

Try this...

1. Use tape to stick a piece of paper onto the spindle of a motor as Diagram 1 shows.



2. Look at the three circuits in Diagram 2.



(i) In which circuit do you predict the motor will turn the fastest? .....

(ii) In which circuit do you predict the motor will turn the slowest? .....

3. Explain your predictions.

.....

4. Make the three circuits in Diagram 2.

5. Write down your observations after you have made each circuit

Circuit 1 .....

Circuit 2 .....

Circuit 3 .....

6. How do your observations compare with your predictions?

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7. What do you predict would happen if you added another battery to each circuit?

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Try an investigation to test your prediction.