



Name:

Class:

## Student worksheet

### 5.5 Electricity is the presence and flow of electric changes

Pages 104–105 and 208–209

## Electricity



1 What is electricity?

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2 What is electric charge produced from?

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3 Finish these sentences:

a Like charges ...

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b Opposite charges ...

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c Charged objects ...

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d In the space below, draw a diagram to illustrate these three sentences.



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4 What is a van de Graaff generator and what can it be used for?

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5 What happens when positive and negative charges are separated?

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6 Why is it hard to separate charges, and what can be done to overcome this?

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7 What is a closed circuit, and what is another name for this?

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8 Draw a diagram of a closed circuit showing a battery, wires, globe and the flow of electricity.



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9 Using an example, explain what the following are:

a electrical conductor

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b electrical insulator

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c semiconductor

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## Extend your understanding

People often experience electric shocks when they are least expecting it.

10 What is an electric shock?

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11 In what circumstances do you receive an electric shock? That is, what must you be wearing or doing?

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12 Why do you seem to get electric shocks when near something metallic?

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13 What metallic objects have you been in contact with recently that have caused you to receive a shock?

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