



Name:

Class:

## Literacy support worksheet

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

Pages 104–105 and 208–209

## Electricity

1 What is electricity?



2 When is electricity produced?

3 Finish the sentences:

a Like charges ...

b Opposite charges ...

c Charged objects ...

4 Draw a diagram to illustrate these three sentences above.



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5 What does a van de Graaff generator do?

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6 Name three ways a van de Graaff generator is used.

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7 If a closed circuit is provided, what will the electrons do?

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

9 Explain what the following do and give an example.

a electrical conductor

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b electrical insulator

10 What is a semiconductor? Provide an example.

## WORD DETECTIVE

### 11 Flow diagram

Read the sentences and fill in the gaps on the flow diagram in order to describe what happens when a balloon is rubbed on someone's hair. This has an effect much like the van de Graaff generator.

- The balloon will steal electrons from your hair.
- Rub a balloon against your hair.
- Your hair will be attracted by the balloon and stand up.
- Put the balloon near your hair and the opposite charges attract.
- Your hair is now positively charged and the balloon is negatively charged.

