Energy costs

Energy 3.3.1 | Part 1, usually Year 7 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: Energy | Exploring Science 7I

Name: _____ **Date:** _____ **Score:** _____ **/ 20**

1 What is the basic unit of energy? Give the unit name.

2 The energy in food is often given on the packet in which unit? Give the unit symbol.

3 How many joules are there in 1 kilojoule?

4 Complete the definition: power is how quickly energy is ... by a device. Answer in one word.

5 What unit is power measured in? Give the unit name.

6 How many watts are there in 1 kilowatt?

7 Electricity bills measure the energy you use in which unit? Give the unit symbol.

8 Write the equation for the energy used by an appliance, using power and time.

9 A 2 kW heater is left on for 3 hours. How much energy does it use, in kWh?

10 Electricity costs 30p for each kWh. How much do 6 kWh cost, in pence?

11 A 1 kW kettle is switched on for 0.1 hours. How much energy does it use, in kWh?

12 Which transfers more energy in an hour: a 60 W lamp or a 10 W lamp?

13 Coal, oil and natural gas formed from the remains of ancient living things. What are they called? Answer in two words.

14 A resource that will run out one day, such as coal, is called renewable or non-renewable?

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15 Name one renewable energy resource.

Year 9 stretch

16 A 2000 W hair dryer is used for 15 minutes. How much energy does it use, in kWh?

17 Electricity costs 28p per kWh. A 3 kW oven is on for 2 hours. How much does this cost, in pence?

18 A 100 W television is left on for 10 hours. Electricity costs 30p per kWh. How much does this cost, in pence?

19 A teenager needs about 9000 kJ of energy a day. A cereal bar gives 900 kJ. How many cereal bars would supply a whole day's energy?

20 Explain why we cannot keep burning fossil fuels for ever.

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