Energy transfer

Energy 3.3.2 | Part 1, usually Year 7 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: Energy; Activate 3: Energy | Exploring Science 7I, 8K

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

1 A rolling football has energy in which store? Answer in one word.

2 Food, fuels and batteries hold energy in which store? Answer in one word.

3 A tin of paint on a high shelf has energy in which store? Answer in two words.

4 A stretched rubber band holds energy in which store? Answer in one word.

5 A bowl of hot soup has energy in which store? Answer in one word.

6 Energy cannot be made or destroyed. What can happen to it instead? Answer in one word.

7 Energy that spreads out into the surroundings and is not useful is often described as what? Answer in one word.

8 Energy is transferred when a kettle boils. What happens to the total amount of energy? Answer in a few words.

9 You wind the handle of a hand-crank torch. The energy comes from which store in your body? Answer in one word.

10 A toy car rolls faster and faster down a ramp. Does the energy in its kinetic store go up or down?

11 A bouncy ball is squashed flat for a moment as it hits the floor. Which store fills up? Answer in one word.

12 Energy that is wasted spreads out into the surroundings. Which store of the surroundings does it usually fill? Answer in one word.

13 An electric motor is given 50 J of energy. It wastes 10 J. How much energy is useful, in joules?

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14 A pendulum swings down from its highest point to its lowest point. Which store empties as it falls? Answer in two words.

15 A bike brakes hard and its kinetic store goes down. Which store of the brakes goes up? Answer in one word.

Year 9 stretch

16 A lamp is supplied with 100 J of energy. 20 J is transferred as light. How many joules are wasted?

17 The same lamp turns 20 J of its 100 J into light. What percentage of the energy is useful?

18 An electric drill is given 200 J of energy. 60% of this energy is useful. How many joules of useful energy does it transfer?

19 A ball is dropped from a height. Just before it hits the ground, which store holds most of its energy? Answer in one word.

20 Explain why a bouncing ball bounces a little lower each time.

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