ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 18 · 10 QUESTIONS

Energy — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A bicycle freewheels downhill. What happens to its speed?**

- A it increases
- B it becomes zero
- C it decreases
- D it stays the same

Understand It with Pulse | Flag a mistake

2 **A cheese pizza provides energy. Which nutrient provides most energy?**

- A fat
- B fibre
- C protein
- D vitamins

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3 **A machine uses 320 J of energy and gives out 80 J of useful energy. What is its efficiency?**

- A 35%
- B 50%
- C 25%
- D 12.5%

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4 **A cup of coffee cools down. Energy is transferred to the surroundings. What type of change is this?**

- A an energy transfer
- B a neutralisation
- C a reversible reaction
- D a chemical change

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5 **A basketball bounces. What type of energy is stored when the ball squashes?**

- A elastic potential
- B kinetic
- C gravitational potential
- D thermal

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6 **A 5 kg object is lifted 10 m. Use g = 10 N/kg. What is the gain in gravitational potential energy?**

- A 1000 J
- B 500 J
- C 50 J
- D 250 J

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7 **A red race car has a large rear wing. What does the wing do?**

A increases speed

B reduces grip

C reduces drag to zero

D increases grip

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8 **A device transfers 200 J of energy in 20 seconds. What is its power?**

A 20 W

B 10 W

C 4000 W

D 5 W

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9 **A 2 kg object moves at 4 m/s. What is its kinetic energy?**

- A 32 J
- B 16 J
- C 8 J
- D 26 J

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10 **A rocket is pushed up by hot gases. What is the upward force called?**

- A lift
- B weight
- C drag
- D thrust

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ANSWER KEY

1. A
2. A
3. C
4. A
5. A
6. B
7. D
8. B
9. B
10. D

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