ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 19 · 10 QUESTIONS

Conservation of 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 rolls down a hill. What happens to its gravitational potential energy?**

- A it becomes chemical energy stored in the bike
- B it decreases as kinetic energy increases
- C it stays the same
- D it increases

Understand It with Pulse | Flag a mistake

2 **A basketball is dropped. What energy store increases as it falls?**

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

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3 **A device transfers 1000 J of energy in 10 seconds. What is its power?**

- A 100 W
- B 10000 W
- C 50 W
- D 200 W

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4 **A machine uses 240 J of energy and gives out 60 J of useful energy. What is its efficiency?**

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

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

- A reduces grip
- B reduces drag to zero
- C increases grip
- D increases speed

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6 **A motor lifts a load and does 500 J of work in 10 seconds. What is the power?**

- A 500 W
- B 5000 W
- C 50 W
- D 5 W

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7 **What is the unit of energy?**

A the volt

B the watt

C the joule

D the newton

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8 **What is kinetic energy?**

A energy of light

B energy of position

C energy of heat

D energy of movement

Understand It with Pulse | Flag a mistake

9 **A rocket launches straight up. Which force acts downwards on the rocket?**

A gravity

B air resistance

C lift

D thrust

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10 **A 4 kg object moves at 3 m/s. What is its kinetic energy?**

A 36 J

B 18 J

C 28 J

D 9 J

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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