ENGLAND GCSE PHYSICS AQA FOUNDATION · UNIT 1 · 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 to let Brett know so he can fix it.

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

- A thrust
- B air resistance
- C lift
- D gravity

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2 **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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3 **What is the unit of energy?**

A the watt

B the joule

C the volt

D the newton

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4 **A 4 kg object is lifted 2 m. Use g = 10 N/kg. What is the gain in gravitational potential energy?**

A 8 J

B 160 J

C 80 J

D 40 J

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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 force of 50 N pushes a box 10 m along the ground. How much work is done?**

- A 250 J
- B 1000 J
- C 500 J
- D 530 J

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

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

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8 **A 2 kg block has a specific heat capacity of 200 J/kg degrees Celsius. Its temperature rises by 10 degrees Celsius. How much energy is needed?**

- A 2000 J
- B 8000 J
- C 4500 J
- D 4000 J

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9 **When a ball falls, what happens to its energy?**

A energy disappears

B gravitational potential energy becomes kinetic energy

C energy is made

D kinetic energy becomes gravitational potential energy

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

A a reversible reaction

B a chemical change

C a neutralisation

D an energy transfer

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ANSWER KEY

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

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