ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY HIGHER · UNIT 17 · 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 is ridden uphill. Which energy store increases?**

- A elastic potential energy
- B thermal energy from friction
- C kinetic energy of motion
- D gravitational potential

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

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

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3 **In a Sankey display, what does a wider arrow show?**

- A energy transferred in a straight line
- B energy transferred faster
- C energy transferred for longer
- D more energy transferred

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

- A 200 J
- B 100 J
- C 50 J
- D 130 J

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

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

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6 **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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7 **What is the unit of power?**

A the joule

B the volt

C the watt

D the newton

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

A fibre

B vitamins

C protein

D fat

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

- A 100 J
- B 200 J
- C 20 J
- D 400 J

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10 **What does it mean if an energy resource is renewable?**

- A it makes no pollution at all
- B it is cheap to build
- C it will not run out
- D it works in any weather

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ANSWER KEY

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

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