ENGLAND GCSE PHYSICS OCR GATEWAY HIGHER · UNIT 7 · 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 basketball is dropped. What energy store increases as it falls?**

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

Understand It with Pulse | Flag a mistake

2 **A red race car speeds up on a straight track. What is the resultant force doing?**

- A causing a turn
- B causing deceleration
- C doing nothing
- D causing acceleration

Understand It with Pulse | Flag a mistake

3 **A 5 kg object moves at 3 m/s. What is its kinetic energy?**

- A 11.25 J
- B 32.5 J
- C 45 J
- D 22.5 J

Understand It with Pulse | Flag a mistake

4 **Which of these is a non-renewable energy resource?**

- A coal
- B wind
- C tidal
- D solar

Understand It with Pulse | Flag a mistake

5 **What is a disadvantage of biofuels?**

A growing the crops takes land

B they release no carbon dioxide at all

C they cannot be burned

D they never run out

Understand It with Pulse | Flag a mistake

6 **A device transfers 500 J of energy in 10 seconds. What is its power?**

A 5000 W

B 100 W

C 50 W

D 25 W

Understand It with Pulse | Flag a mistake

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

- A 125 J
- B 250 J
- C 500 J
- D 25 J

Understand It with Pulse | Flag a mistake

8 **A cup of coffee is left for an hour. What happens to its temperature?**

- A it stays the same all day
- B it falls to room temperature
- C it falls to zero degrees
- D it rises above room temperature

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

10 **A machine uses 1000 J of energy and gives out 200 J of useful energy. What is its efficiency?**

- A 40%
- B 10%
- C 20%
- D 30%

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.