ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · 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 rocket is pushed up by hot gases. What is the upward force called?**

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

Understand It with Pulse | Flag a mistake

2 **A bicycle is ridden uphill. Which energy store increases?**

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

Understand It with Pulse | Flag a mistake

3 **A cheese pizza contains cheese made from milk. What is milk rich in?**

- A fibre
- B vitamin C
- C calcium
- D iron

Understand It with Pulse | Flag a mistake

4 **A cup of coffee is hot. How is energy transferred to the air?**

- A by conduction and convection
- B by condensation on the cold cup
- C by radiation only, from the surface
- D by evaporation only, from the top

Understand It with Pulse | Flag a mistake

5 **A device transfers 100 J of energy in 25 seconds. What is its power?**

- A 2 W
- B 8 W
- C 2500 W
- D 4 W

Understand It with Pulse | Flag a mistake

6 **A force of 25 N pushes a box 5 m along the ground. How much work is done?**

- A 125 J
- B 155 J
- C 250 J
- D 62 J

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

8 **A spring has a spring constant of 20 N/m. It is stretched by 5 cm. What is the elastic potential energy stored?**

- A 0.1 J
- B 0.0125 J
- C 0.025 J
- D 0.05 J

Understand It with Pulse | Flag a mistake

9 **A Sankey display for a light bulb shows 100 J in, 10 J of light out and 90 J of heat out. What is the useful energy?**

- A 90 J of heat
- B 10 J of light
- C 100 J of electricity
- D 110 J in total

Understand It with Pulse | Flag a mistake

10 **A red race car brakes hard. What happens to its kinetic energy?**

- A it is transferred to heat
- B it disappears
- C it increases
- D it becomes sound only, nothing else

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.