ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · UNIT 18 · 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 red race car brakes hard. What happens to its kinetic energy?**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

5 **How can heat loss from a house be reduced?**

A by opening windows

B by turning the heating up

C by insulating the loft

D by removing curtains

Understand It with Pulse | Flag a mistake

6 **A machine uses 120 J of energy and gives out 60 J of useful energy. What is its efficiency?**

A 25%

B 50%

C 60%

D 100%

Understand It with Pulse | Flag a mistake

7 **A rocket in space has no air around it. What happens to air resistance?**

- A it increases
- B it stays the same
- C it becomes gravity
- D there is none

Understand It with Pulse | Flag a mistake

8 **A 5 kg object moves at 4 m/s. What is its kinetic energy?**

- A 50 J
- B 20 J
- C 80 J
- D 40 J

Understand It with Pulse | Flag a mistake

9 **A device transfers 200 J of energy in 50 seconds. What is its power?**

A 10000 W

B 4 W

C 2 W

D 8 W

Understand It with Pulse | Flag a mistake

10 **What is nuclear power fuelled by?**

A oil

B uranium

C coal

D hydrogen

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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