ENGLAND GCSE PHYSICS EDEXCEL HIGHER · UNIT 8 · 10 QUESTIONS

Energy - Forces Doing Work — 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 red race car speeds up on a straight track. What is the resultant force doing?**

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

Understand It with Pulse | Flag a mistake

2 **A basketball is thrown up. What happens to its speed as it rises?**

- A it becomes zero
- B it decreases
- C it stays the same
- D it increases

Understand It with Pulse | Flag a mistake

3 **A machine transfers 6000 J of energy in 100 s. Calculate the power in W.**

- A 60
- B 120
- C 30
- D 600

Understand It with Pulse | Flag a mistake

4 **A force of 10 N pushes a box 5 m along the ground. How much work is done?**

- A 50 J
- B 80 J
- C 100 J
- D 25 J

Understand It with Pulse | Flag a mistake

5 **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 evaporation only, from the top

D by radiation only, from the surface

Understand It with Pulse | Flag a mistake

6 **A bicycle has brakes. What do the brakes do to kinetic energy?**

A store it

B turn it into light and sound

C destroy it

D transfer it to heat

Understand It with Pulse | Flag a mistake

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

A fibre

B vitamins

C fat

D protein

Understand It with Pulse | Flag a mistake

8 **A mass of 10 kg moves at 4 m/s. Calculate its kinetic energy in J.**

A 40

B 80

C 160

D 240

Understand It with Pulse | Flag a mistake

9 **A machine transfers 1000 J of energy in 10 s. Calculate the power in W.**

- A 1000
- B 200
- C 100
- D 50

Understand It with Pulse | Flag a mistake

10 **A force of 25 N pushes a box 2 m along the ground. How much work is done?**

- A 50 J
- B 80 J
- C 25 J
- D 100 J

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.