ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 23 · 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 so it can be fixed.

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

- A destroy it
- B store it
- C turn it into light and sound
- D transfer it to heat

Understand It with Pulse | Flag a mistake

**2** **A red race car has a large rear wing. What does the wing do?**

- A increases speed
- B reduces drag to zero
- C reduces grip
- D increases grip

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

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

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

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

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5 **A machine transfers 1000 J of energy in 50 s. Calculate the power in W.**

- A 10
- B 20
- C 40
- D 200

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6 **A mass of 5 kg moves at 5 m/s. Calculate its kinetic energy in J.**

- A 125
- B 62.5
- C 187.5
- D 31.25

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7 **A force of 50 N pushes an object 3 m. Calculate the work done in J.**

A 160

B 75

C 150

D 300

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

A fibre

B fat

C protein

D vitamins

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9 **A force of 25 N pushes a box 4 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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10 **A basketball is dropped. What energy store increases as it falls?**

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

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## ANSWER KEY

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

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