ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · 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 has a large rear wing. What does the wing do?**

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

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 increases
- C it decreases
- D it stays the same

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3 **A mass of 2 kg moves at 5 m/s. Calculate its kinetic energy in J.**

- A 25
- B 50
- C 75
- D 12.5

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4 **A force of 25 N pushes an object 5 m. Calculate the work done in J.**

- A 135
- B 250
- C 62
- D 125

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

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

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

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

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7 **A force of 50 N pushes a box 10 m along the ground. How much work is done?**

- A 250 J
- B 500 J
- C 1000 J
- D 530 J

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

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

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9 **A mass of 10 kg moves at 2 m/s. Calculate its kinetic energy in J.**

- A 60
- B 10
- C 20
- D 40

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10 **A mass of 10 kg is lifted 3 m. Calculate the gravitational potential energy gained in J. Use g = 10 N/kg.**

- A 600
- B 150
- C 350
- D 300

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ANSWER KEY

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

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