ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · 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 cup of coffee is left for an hour. What happens to its temperature?**

- A it falls to room temperature
- B it falls to zero degrees
- C it rises above room temperature
- D it stays the same all day

Understand It with Pulse | Flag a mistake

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

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

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

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

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

- A 27
- B 18
- C 9
- D 4.5

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5 **A force of 10 N pushes an object 10 m. Calculate the work done in J.**

- A 100
- B 50
- C 110
- D 200

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6 **A bicycle freewheels downhill. What happens to its speed?**

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

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7 **A machine transfers 3000 J of energy in 10 s. Calculate the power in W.**

- A 150
- B 600
- C 3000
- D 300

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

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

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9 **A force of 50 N pushes an object 5 m. Calculate the work done in J.**

- A 125
- B 260
- C 250
- D 500

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

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

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ANSWER KEY

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

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