ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 29 · 10 QUESTIONS

Forces and Matter — 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 calculator runs on a small current. What is current measured in?**

- A watts, the unit of power
- B amperes
- C ohms, the unit of resistance
- D volts, the unit of voltage

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2 **A ladder is climbed. Which energy store increases?**

- A thermal energy from friction
- B kinetic energy of motion
- C elastic potential energy
- D gravitational potential

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3 **Hardcover books are dropped. What happens to their speed as they fall?**

A it becomes zero

B it increases

C it decreases

D it stays the same

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4 **What happens to a spring stretched past its limit of proportionality?**

A it becomes stronger than before

B it does not return to its original length

C it returns to its original length at once, unchanged

D it turns into a different metal

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5 **A wristwatch measures time. What is the unit of time?**

A the minute

B the day

C the hour

D the second

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6 **A cardboard box sits on a floor. What is the force between the box and the floor?**

A the friction between the surfaces

B the upthrust from the floor

C the air pressure all around it

D the weight of the box

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7 **A spring has a spring constant of 50 N/m. It is stretched by 0.4 m. Calculate the force in N.**

- A 35
- B 40
- C 20
- D 10

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8 **A spring has a spring constant of 100 N/m. It is stretched by 5 cm. What is the elastic potential energy stored?**

- A 0.0625 J
- B 0.125 J
- C 0.5 J
- D 0.25 J

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9 **A spring with spring constant 100 N/m is stretched by 0.2 m. Calculate the elastic potential energy stored in J.**

- A 8
- B 2
- C 1
- D 4

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10 **A spring has a spring constant of 50 N/m. It is stretched by 2 cm. What is the force?**

- A 1.5 N
- B 2 N
- C 0.5 N
- D 1 N

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ANSWER KEY

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

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