ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · 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 wristwatch ticks every second. How many ticks in a minute?**

- A 12
- B 30
- C 60
- D 100

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

- A the upthrust from the floor
- B the friction between the surfaces
- C the air pressure all around it
- D the weight of the box

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3 **A spring has a spring constant of 100 N/m. It is stretched by 2 cm. What is the elastic potential energy stored?**

- A 0.08 J
- B 0.02 J
- C 0.01 J
- D 0.04 J

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

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

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5 **A calculator is switched on. What does the battery transfer energy to?**

A the case

B the screen only

C the circuits

D the buttons only

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6 **A spring with spring constant 100 N/m is stretched by 0.1 m. Calculate the elastic potential energy stored in J.**

A 1

B 0.5

C 2

D 0.25

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7 **A spring has a spring constant of 40 N/m. It is stretched by 2 cm. What is the elastic potential energy stored?**

- A 0.016 J
- B 0.032 J
- C 0.004 J
- D 0.008 J

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8 **A spring has a spring constant of 10 N/m. It is stretched by 0.4 m. Calculate the force in N.**

- A 2
- B 8
- C 4
- D 19

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9 **Glass marbles are shaken in a tray. What does this model?**

A particles freezing into place

B particles gaining energy

C particles bonding together

D particles disappearing completely

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10 **Hardcover books are stacked on a table. What force pulls them down?**

A friction

B tension

C air resistance

D gravity

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ANSWER KEY

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

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