ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 22 · 10 QUESTIONS

Forces — 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 kite rises higher. What happens to the wind speed usually?**

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

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2 **A Ferris wheel turns. What force keeps a person moving in a circle?**

- A friction only, gripping the seat
- B gravity only, pulling them down
- C centripetal force
- D air resistance pushing them back

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3 **What force is needed to accelerate a 4 kg object at 2 m/s squared?**

- A 13 N
- B 4 N
- C 8 N
- D 16 N

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4 **What is Newton's Second Law?**

- A energy is conserved
- B force equals mass times acceleration
- C an object stays still unless a force acts
- D every action has an equal reaction

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

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

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6 **A tennis ball bounces. What happens to its kinetic energy?**

- A it all stays kinetic energy
- B some becomes heat
- C it becomes light energy
- D it disappears completely

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7 **A yellow school bus is full of children. What is its mass like?**

- **A** the same as when empty
- **B** larger than when empty
- **C** smaller than when empty
- **D** zero

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8 **An object speeds up from 5 m/s to 15 m/s in 10 seconds. What is its acceleration?**

- **A** 10 m/s^2
- **B** 1 m/s^2
- **C** 0.5 m/s^2
- **D** 2 m/s^2

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9 **A red race car brakes hard. What happens to its kinetic energy?**

- A it becomes sound only, nothing else
- B it is transferred to heat
- C it disappears
- D it increases

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10 **An object travels 400 m in 50 seconds. What is its speed?**

- A 20000 m/s
- B 8 m/s
- C 4 m/s
- D 16 m/s

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ANSWER KEY

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

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