ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 18 · 10 QUESTIONS

Motion and 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 wristwatch is used to time a race. What is speed calculated from?**

- A distance and time
- B distance only, not time
- C mass and time together
- D time only, not distance

Understand It with Pulse | Flag a mistake

2 **A passenger aeroplane cruises. Which force opposes its motion?**

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

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

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

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4 **A tennis ball is hit across a court. Which force slows the ball down in the air?**

- A gravity
- B the hit
- C air resistance
- D friction with the ground

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5 **An object speeds up from 0 m/s to 10 m/s in 5 seconds. What is its acceleration?**

- A 2 m/s²
- B 4 m/s²
- C 10 m/s²
- D 1 m/s²

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6 **A passenger train brakes. What force slows it down?**

- A friction
- B lift
- C thrust
- D gravity, pulling it down

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7 **A basketball bounces. What type of energy is stored when the ball squashes?**

A gravitational potential

B kinetic

C thermal

D elastic potential

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8 **A red race car speeds up on a straight track. What is the resultant force doing?**

A causing a turn

B doing nothing

C causing acceleration

D causing deceleration

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9 **Which factor increases braking distance?**

- A a wet road
- B being tired
- C being distracted
- D drinking alcohol

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

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

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ANSWER KEY

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

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