ENGLAND GCSE COMBINED SCIENCE AQA SYNERGY HIGHER · UNIT 7 · 10 QUESTIONS

Movement and Interactions — 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 basketball is dropped. What energy store increases as it falls?**

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

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

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

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

A 1 m/s²

B 0.5 m/s²

C 10 m/s²

D 2 m/s²

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4 **A device works at 12 V with a current of 3 A. What is its power?**

A 72 W

B 36 W

C 18 W

D 46 W

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5 **What is an echo?**

A a refracted sound wave

B a reflected sound wave

C a loud sound

D a high pitched sound

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6 **How is work done calculated?**

A force times distance

B energy divided by time

C force divided by distance

D mass times speed

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7 **What is the momentum of a 4 kg object moving at 10 m/s?**

A 20 kg m/s

B 40 kg m/s

C 14 kg m/s

D 80 kg m/s

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

A friction only, gripping the seat

B air resistance pushing them back

C centripetal force

D gravity only, pulling them down

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9 **A passenger aeroplane takes off. Which force lifts it up?**

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

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10 **A 10 kg object is lifted 4 m. Use g = 10 N/kg. What is the gain in gravitational potential energy?**

- A 200 J
- B 40 J
- C 400 J
- D 800 J

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ANSWER KEY

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

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