ENGLAND GCSE PHYSICS AQA FOUNDATION · UNIT 5 · 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 to let Brett know so he can fix it.

1 **A tennis ball is served fast. What is its speed like?**

- A negative
- B low
- C high
- D zero

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

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

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3 **Why does a long spanner undo a tight nut more easily?**

- A the force is smaller
- B the moment is bigger
- C the nut gets hotter
- D the spanner is heavier

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4 **A rocket is pushed up by hot gases. What is the upward force called?**

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

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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 10 m/s²

B 2 m/s²

C 4 m/s²

D 1 m/s²

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

A lift

B weight

C drag

D thrust

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

- A 12 N
- B 6 N
- C 11 N
- D 3 N

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8 A force of 400 N acts on an area of 5 square metres. What is the pressure?

- A 85 Pa
- B 80 Pa
- C 160 Pa
- D 40 Pa

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9 **A force of 500 N acts on an area of 4 square metres. What is the pressure?**

- A 62 Pa
- B 250 Pa
- C 130 Pa
- D 125 Pa

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10 **What is elastic potential energy?**

- A energy stored in a fuel
- B energy of a hot object
- C stored stretch energy
- D energy of movement

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ANSWER KEY

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

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