ENGLAND GCSE PHYSICS OCR GATEWAY FOUNDATION · UNIT 2 · 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 basketball is dropped. What energy store increases as it falls?**

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

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

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

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

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

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4 **A car leaves a roundabout. What happens to its direction?**

- A it stays the same
- B it changes
- C it disappears
- D it reverses

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5 **A force of 200 N acts on an area of 10 square metres. What is the pressure?**

- A 10 Pa
- B 2000 Pa
- C 20 Pa
- D 40 Pa

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6 **A heavier skydiver and a lighter skydiver fall with the same parachute. Who falls faster at terminal velocity?**

- A they fall at the same speed
- B the heavier skydiver
- C neither falls at all
- D the lighter skydiver

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

- A tension
- B air resistance
- C gravity
- D friction

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8 **What force is needed to accelerate a 5 kg object at 3 m/s squared?**

- A 15 N
- B 20 N
- C 7.5 N
- D 30 N

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9 **A force of 10 N acts 10 m from a pivot. What is the moment of the force?**

- A 50 Nm
- B 110 Nm
- C 100 Nm
- D 200 Nm

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

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

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ANSWER KEY

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

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