ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 24 · 10 QUESTIONS

Forces and Their Effects — 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 **Hardcover books are dropped. What happens to their speed as they fall?**

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

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

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

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3 **A ladder is climbed. Which energy store increases?**

- A thermal energy from friction
- B kinetic energy of motion
- C elastic potential energy
- D gravitational potential

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4 **A diver goes deeper under water. What happens to the pressure on the diver?**

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

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5 **A force of 100 N acts on an area of 5 square metres. What is the pressure?**

- A 20 Pa
- B 10 Pa
- C 25 Pa
- D 40 Pa

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6 **A force of 20 N acts 4 m from a pivot. What is the moment of the force?**

- A 90 Nm
- B 80 Nm
- C 40 Nm
- D 160 Nm

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7 **A force of 400 N acts on an area of 20 square metres. Calculate the pressure in pascals.**

- A 40
- B 20
- C 10
- D 35

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8 **A cardboard box is pushed across a floor. What opposes the push?**

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

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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 125 Pa
- C 130 Pa
- D 250 Pa

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10 **A Ferris wheel is at the top. What is the person's height like?**

- A at its smallest
- B unchanged
- C at its greatest
- D at zero

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ANSWER KEY

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

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