ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 14 · 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 so it can be fixed.

1 **Hardcover books are dropped. What happens to their speed as they fall?**

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

Understand It with Pulse | Flag a mistake

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

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

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3 **What is elastic potential energy?**

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

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

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

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

- A 30 N
- B 12.5 N
- C 50 N
- D 25 N

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

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

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

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

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8 **A kite is held by a string. What force does the string exert?**

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

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9

A red race car brakes hard. What happens to its kinetic energy?

- A it becomes sound only, nothing else
- B it disappears
- C it is transferred to heat
- D it increases

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10

What is a scalar quantity?

- A a quantity with size and direction
- B a quantity with no size
- C a quantity with size only
- D a quantity with direction only

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ANSWER KEY

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

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