ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY HIGHER · 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 **A passenger train carries people around the country. Which part of the blood is like the train, carrying oxygen around the body?**

- A platelets
- B plasma
- C white blood cells
- D red blood cells

Understand It with Pulse | Flag a mistake

2 **A red race car has a large rear wing. What does the wing do?**

- A reduces drag to zero
- B increases speed
- C increases grip
- D reduces grip

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3 **A spring is stretched and then released. What happens to the stored elastic potential energy?**

- A it stays in the spring for ever
- B it becomes heat only
- C it disappears
- D it becomes kinetic energy

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

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

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5 **A see-saw balances when the moments on each side are what?**

- A equal
- B doubled on the left side
- C zero on both sides
- D bigger on the heavy side

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6 **A force of 500 N acts on an area of 5 square metres. What is the pressure?**

- A 200 Pa
- B 105 Pa
- C 100 Pa
- D 50 Pa

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7 **What is the momentum of a 2 kg object moving at 10 m/s?**

- A 12 kg m/s
- B 40 kg m/s
- C 10 kg m/s
- D 20 kg m/s

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

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

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9 **A ladder is used to reach a roof. What is the ladder an example of?**

A a power source

B a lever only

C a simple machine

D a complex machine

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10 **A force of 25 N acts 10 m from a pivot. What is the moment of the force?**

A 250 Nm

B 500 Nm

C 125 Nm

D 260 Nm

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ANSWER KEY

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

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