

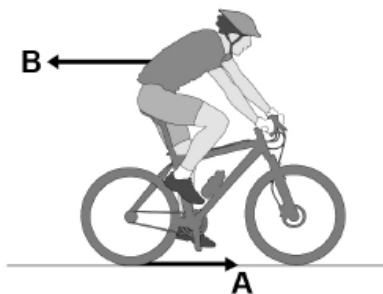
Forces – GCSE Physics Paper 2

1. No.2(2.1_2.3)

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Figure 3 shows a cyclist on a bicycle.

The cyclist is moving at a constant velocity.

Arrows **A** and **B** represent the horizontal forces acting on the bicycle and cyclist.**Figure 3**

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1

What is force **A**?Tick (✓) **one** box.

Air resistance

☐

Friction

☐

Tension

☐

Upthrust

☐**[1 mark]**

0 2 . 2

What is force **B**?

[1 mark]

Tick (✓) **one** box.

Air resistance

☐

Magnetic

☐

Tension

☐

Upthrust

☐

0 2 . 3

What is the relationship between force **A** and force **B** when the cyclist travels at a constant velocity?

[1 mark]

Tick (✓) **one** box.**A = B**☐**A > B**☐**A < B**☐

2. No.6(6.1_6.2)

0 6

The Sun is the closest star to the Earth.

0 6 . 1

A 2.5 kg mass would have a weight of 750 N at the surface of the Sun.

Calculate the gravitational field strength at the surface of the Sun.

Use the equation:

$$\text{gravitational field strength} = \frac{\text{weight}}{\text{mass}}$$

[2 marks]

Gravitational field strength = _____ N/kg

0 6 . 2

Gravity is a non-contact force.

Which of the following is also a non-contact force?

[1 mark]

Tick (✓) **one** box.

Air resistance

☐

Electrostatic

☐

Friction

☐

Tension

☐