

5.1 Forces & their Interactions

Question Paper

Course	AQA GCSE Physics
Section	5. Forces
Topic	5.1 Forces & their Interactions
Difficulty	Easy

Time allowed: 20
Score: /13
Percentage: /100

Question 1a

(a)

State the difference between scalar and vector quantities.

[2 Marks]**[2 marks]****Question 1b**

(b)

The table below contains a number of scalar and vector quantities.

Place one tick (✓) in each row to show whether each quantity is a scalar or a vector.

Quantity	Scalar	Vector
Distance		
Speed		
Acceleration		
Energy		
Force		

[3 Marks]**[3 marks]**

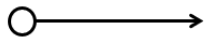
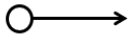
Question 2a

(a)

Which image shows the force with the greatest magnitude?

[1 mark]

Tick (✓) **one** box.



[1 mark]

Question 2b

(b)

What is the correct unit for weight?

[1 mark]

Tick (✓) **one** box.

W

N

kg

m

[1 mark]

Question 2c

(c)

Which of the following instruments allows weight to be measured directly?

[1 mark]

Tick (✓) **one** box.

Top-pan balance

Newtonmeter

Joulemeter

Ammeter

[1 mark]

Question 3a

A student is sitting still on a chair in her physics lesson.

(a)

Name the forces acting on the student.

[2 marks]

[2 marks]

Question 3b

(b)

For your answer to part (a), state whether these forces are contact or non-contact forces.

[2 marks]

[2 marks]

Question 3c

(c)

The student's weight is 450 N.

Determine the resultant force on the student.

[1 mark]**[1 mark]**