

Contact and Non-Contact Forces

Mark Scheme

Level	GCSE (9-1)
Subject	Combined Science: Trilogy - Physics
Exam Board	AQA
Topic	6.5 Forces
Sub-Topic	Contact and Non-Contact Forces
Difficulty Level	Gold Level
Booklet	Mark Scheme

Time Allowed: 12 minutes

Score: /11

Percentage: /100

Grade Boundaries:

M1.(a) arrow of equal size pointing vertically downwards
judged by eye

1

labelled 'weight'

1

(b) the upwards force is greater than the downwards force

1

because air resistance increases

1

(c) $v^2 = (2 \times 2 \times 209) + 8^2$

1

$$v = \sqrt{900}$$

1

$$v = 30 \text{ (m / s)}$$

1

allow 30 (m / s) without working shown for 3 calculation marks

(d) vertical force (300 N) drawn with a suitable scale

1

horizontal force (60 N) drawn to the same scale

1

resultant force drawn in correct direction

1

value of resultant in the range 304 N – 308 N

1

[11]