

# Mass, Weight & Density

## Question Paper

Course	CIE IGCSE Physics
Section	1. Motion, Forces & Energy
Topic	Mass, Weight & Density
Difficulty	Easy

**Time Allowed**      10

**Score**                /6

**Percentage**        /100

### Question 1

Which of the quantities below is weight an example of?

- A. Field strength
- B. Acceleration
- C. Mass
- D. Force

[1 mark]

### Question 2

Which of the following statements about mass or weight is true?

- A. weight is measured in kilograms
- B.  $\text{mass} = \text{weight} \times \text{gravitational field strength}$
- C. weight is measured in Newtons
- D. mass is a force

[1 mark]

### Question 3

#### Extended tier only

How is the weight of an object defined?

- A. The force of the ground pushing on an object
- B. A measure of the quantity of matter of an object at rest to the observer
- C. The mass per unit volume of an object
- D. The gravitational force acting on an object with mass

[1 mark]

**Question 4**

Which row in the table gives the correct units for mass and for weight?

	Mass	Weight
A	kg	kg
B	N	kg
C	N	N
D	kg	N

[1 mark]

**Question 5**

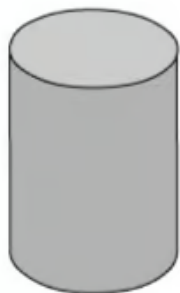
Which of the following quantities is measured in kilograms?

- A. weight
- B. mass
- C. pressure
- D. density

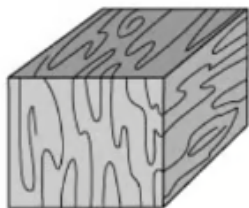
[1 mark]

**Question 6**

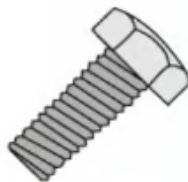
A student is given four objects, a mass balance and a metre ruler.



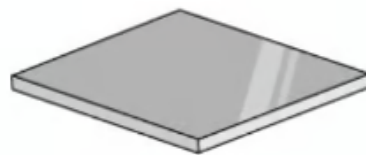
Aluminium



Wood



Bolt



Plastic

Which of the objects can he determine the density of, using only the metre ruler and the mass balance?

- A.** Bolt, aluminium and plastic
- B.** Wood, bolt and plastic
- C.** Aluminium, wood and plastic
- D.** Aluminium, wood and bolt

[1 mark]