CAIE Physics IGCSE

Topic 1.3 - Mass and Weight

Flashcards

Define mass.

Define mass.

The amount of matter contained in an object.

Define weight.

Define weight.

The gravitational force acting on an object with mass.

Give the equation for weight, including all SI units.

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Weight (N) = mass (kg) x gravitational field strength (kg/N)

What does ‘g’ represent?

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The gravitational field strength.

How can weight and mass be compared?

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Using a **balance**, which measures weight and can converts it into mass (by dividing by ‘g’).

How does an object's mass and weight differ from planet to planet? (supplement)

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- Mass does not change
- Weight differs because it is the effect of the gravitational field on a mass, and 'g' is different at the surface of different planets.