

BGE Space and Forces Homework 2

Q1 State what is meant by a force.

(1)

Q2 Three pupils are discussing their Physics lesson that day.

Pupil A says “Weight is measured in kilograms and is the downwards pull on a body due to gravity.”

Pupil B says “Weight is measured in newtons and is the downwards pull on a body due to gravity.”

Pupil C says Mass is measured in kilograms and is the downwards pull on a body due to gravity.”

State which pupil made the correct statement and explain what is wrong with the others.

(2)

Q3 State an equation that can be used to convert the mass of a body into its weight.

(1)

Q3 An astronaut has a hammer with a mass of 0.8 kg on the moon

(a) Calculate the hammer's weight on Earth where the value of g is 10 Nkg^{-1} .

(3)

(b) Calculate the hammer's weight on the moon where the value of g is 1.6 Nkg^{-1} .

(3)