Weight

1   Complete the following paragraph by filling in the missing words.

The weight of an object is measured in units called   newtons   This means

weight is a type of   force   . The weight of an object depends on the

     gravitational field strength   which varies depending on where you are in the

solar system. In deep space, you are are described as weightless because there is very little

or no   gravity   . Objects on the moon weigh less than on earth and therefore it

is easier to launch a rocket from the moon's surface.

(5 marks)

2   In 1971, during a mission to the moon, astronauts did an experiment with falling objects. The experiment involved dropping a feather and a hammer at the same time to see which would land first.

Hammer   Feather

2 (a) The mass of the hammer was 2.0 Kg. Calculate the weight of the hammer on the moon.

Gravitational Field Strength on the Moon = 1.5 N/Kg

Show your working.

2 x 1.5 [1 mark]

You get the full two marks if you just put the answer but you must show our working.

Weight of hammer = ……3 N ...
(2 marks)

(Total 7 marks)