K Education Centre

GCSE Physics Forces P10

Forces And Motion Assignment-1

Assignment Questions

P10 : Force and Motion Assignment-1

Q1 : Describe Newton' s First law of motion

Q2: Copy and complete the table:

	Force (N)	Mass in kg	Acceleration (m/s^2)
a)		30	0.60
b)	100		0.30
c)		100	1.23
d)	85	7.5	
e)	100	8	
f)	1000		3.5

Q3: Describe Newton's Second law of motion.

Q4: Calculate the resultant force on an object of mass 36 kg when it has an acceleration of 5.0 m/s^2 .

Q5: Calculate the acceleration of an object with mass 16.0 kg acted on by a resultant force of 150 N.

Q6: A car and a trailer have a total mass of 2400 kg. Calculate the force needed to accelerate the car and the trailer at 5.0 m/s^2.

Q7 : What is inertia ? Explain in terms of newton's first law of motion.

Q8:   What is the weight of the object on Moon , if the weight of the object on the surface of the earth is 112 kg. The gravitational field on the strength of the moon is one sixth of that Moon.