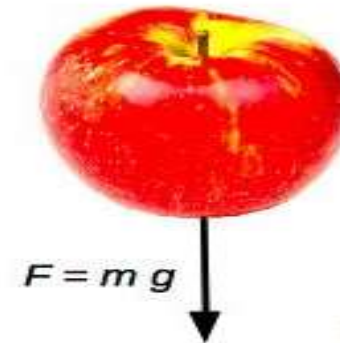
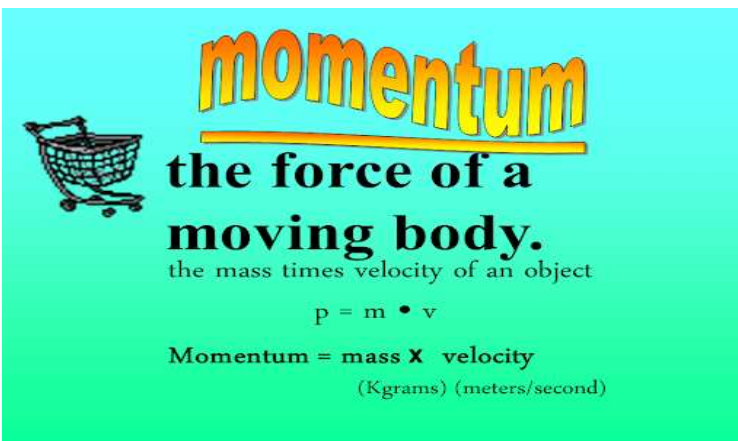
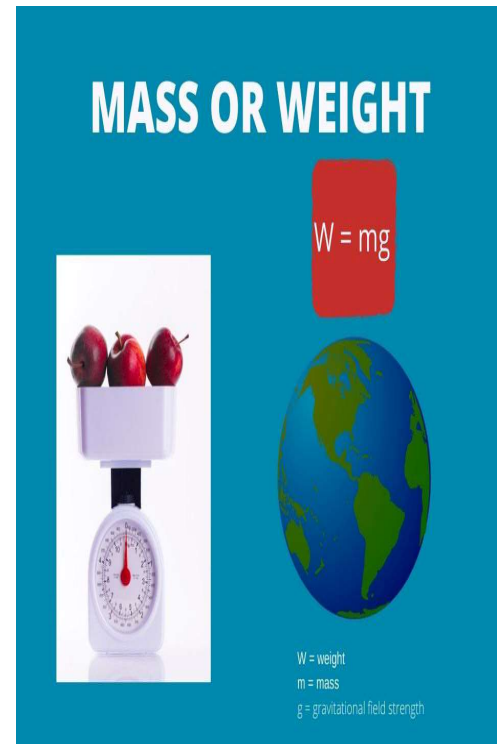


Grade 10 Science

Unit 4 Newton's Laws of Motion

Activity sheet 03



Momentum, mass and weight

Mrs. J.M.D.A.R Prashanthi (BSc)
St. Lawrences' Convent, Colombo 06

1. What are the factors affect in the momentum of an object?

.....
.....
.....

2. The mass of a motor car is 750 kg. Find its momentum when it is moving at a velocity of 15 ms^{-1} .

.....
.....
.....
.....
.....

3. The mass of an object is 500 grams. Find its momentum when it is moving at a velocity of 5 ms^{-1} .

.....
.....
.....
.....
.....

4. A certain object has a mass of 300 g. If it moves with a velocity of 6 ms^{-1} . what is the momentum of the object?

.....
.....
.....
.....
.....

5. The momentum of a moving object is 8 kgms^{-1} . Find its velocity if it has a mass of 500 grams.

.....
.....
.....
.....
.....

6. a. The mass of an object is 75 kg. What is its weight?

.....
.....
.....
.....

- b. If the gravitational acceleration on the moon is $1/6^{\text{th}}$ that of the earth, what would be the weight of the above object on the moon?

.....
.....
.....
.....
.....
.....
.....
.....