

Please submit once completed

Learning Intentions:

By the end of this lesson I will be able to:

- ★ Understand the terms 'Mass' and 'Weight' and find out whether there is any difference between the two.
- ★ Be able to use the equation $w=mg$

Task 1 - Push or Pull?

Look at the pictures below and decide if the movement is as a result of a push or pull force.













Task 2 – What do YOU Think?

When you hear the term mass, what do you think of?

When you hear the term weight, what do you think of?

Task 3 – Definitions

Definition of Mass

Definition of Weight

Copy and past the link below into your browser to hear a song that will help you remember the difference between the two.

<http://www.youtube.com/watch?v=1whMAIGNq7E>

Task 4 – Calculating Mass and Weight

Weight = Mass x 10 (strength of gravity)

$$W = m \times g$$

practice using the new equation by answering the following questions

1. Calculate the WEIGHT of an object if the MASS is 10 kg
2. Calculate the WEIGHT of an object if the MASS if 75 kg
3. What will the weight of a 500 kg object be?
4. What will the weight of a 27.6 kg object be?

Extension Questions...

1. If an object has a weight of 700 N, what is its mass?
2. If and object has a weight of 50 N, what is its mass?