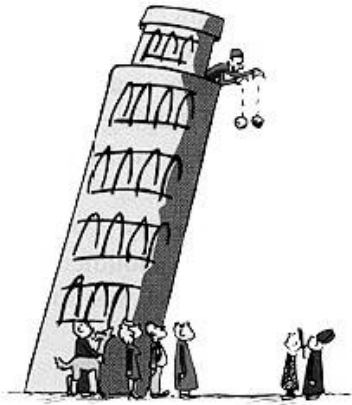


Name: _____ Date: _____ Period: _____

Objects in Free Fall

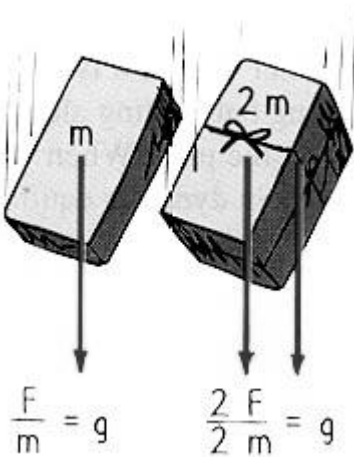


Galileo Galilei proved "common sense" _____ when he showed that heavier objects do not fall faster than lighter objects.

He showed this by _____

When an object is falling only under the influence of _____, we say the object is in _____.

While in free fall, other forces such as _____ can be neglected.



Gravitational force (weight) is _____ to mass.

Double the _____ and the _____ force will be doubled also.

Ratio of weight to mass is always the same _____

In this class, we will round this to _____

Usually, the _____ on a falling object is not negligible.

Because of this, the acceleration on a falling object is usually
_____ 10m/s^2 .

Air drag depends on two things:

- 1) The _____ of the falling object
- 2) The _____ of the falling object

When the force due to air drag is equal to the force due to weight, the object reaches
a _____

At this time, the net force on the object is equal to _____ and no
_____ occurs.

Terminal velocity is a _____ velocity.

