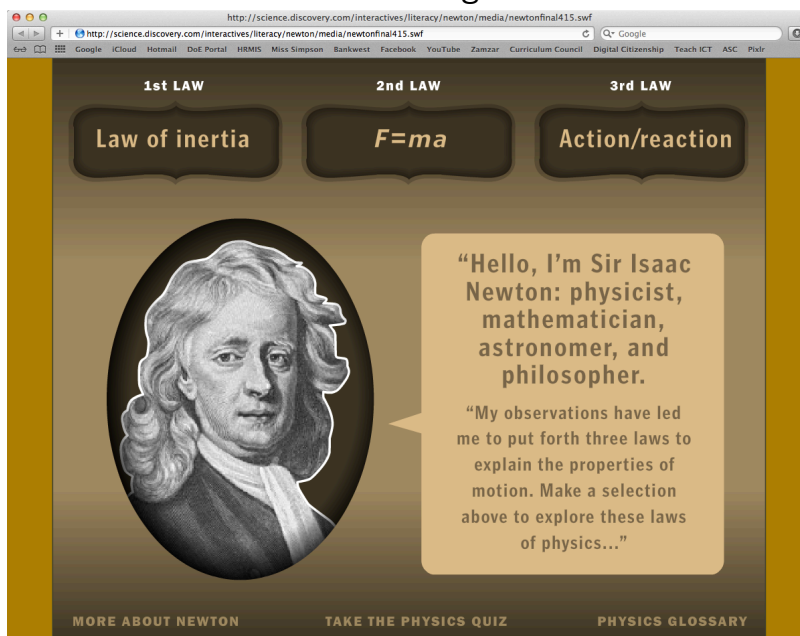


Newton's Laws of Motion Webquest

This interactive webquest is designed to help you gain a better understanding of Newton's Laws and the principles of physics. You need to complete the series of activities outlined below and answer any questions on this sheet.

Please go to <http://science.discovery.com/interactives/literacy/newton/newton.html> or type the key words "Newton interactive" into Google and select the first option from the list that is generated for you.

You are on the correct site if it looks like the image below:



Before you start! If you have earplugs feel free to use them, if not then please turn the sound on your computer off.

Click on "Law of Inertia"

1. Complete the sentence:

Every _____ in a state of _____ or _____ motion remains in that state unless an _____ force is applied to it.

2. Why does the worm remain in motion after you've stopped the apple? _____

Click on "go to the next law"



3. What is Newton's second law? _____

4. What is the equation that represents this law? _____

5. What does "F" stand for? _____

6. What does "m" stand for? _____

7. What does "a" stand for? _____

Click on the worm and the apple to fill in the blanks below:


$$F = m \times a$$

=

Click on the worm or the apple to change the variables. Fill in your selections below:

=

=

Click on "go to the next law" 

8. What is Newton's third law? _____

Click on the worm to start the launch.

9. Complete the following sentence:

The _____ forces creates an _____ and _____ reaction, propelling the rocket _____. It's a simple law that applies on _____, or in the _____ of space.

Take the quiz to challenge your memory.

10. What was your score out of 10? _____

Use the glossary on the interactive to find definitions for the following words:

Momentum: _____

Uniform motion: _____

Acceleration: _____

Force: _____

END OF WEBQUEST