

Webquest: Types of Forces

Part 1: force

Use the following link to answer the following questions:

<http://www.darvill.clara.net/enforcemot/forces.htm>

A. Forces Tab: Make sure you have clicked on the forces tab on the screen for the following questions.

1. **Forces** are measured in **Newtons (N)**. Why are forces considered to be *vectors*?
2. List three things that can change a force?
3. Explain the force of *gravity*. (Is it a weak force or a strong force? Which direction does act on objects?)
4. What is *weight*?
5. What is the Earth's gravitational strength at ground level?

Read and answer the gravity questions on your own.

6. Explain what a *balanced force* and an *unbalanced force*.
7. Observe the parachute picture and answer the questions below:
 - What forces are acting?
 - What can you say about the **size** of the forces?
8. The *resultant force* is also called the *net force*. Explain resultant force.

Part II: Friction

B. Friction tab: click on the friction tab on the screen and answer the questions below

1. What is friction?

2. What are the two main types of friction?

3. What does friction depend upon?

Watch and read the animation about fiction!!

4. What is fluid friction?

5. What does fluid friction depend upon?

6. What is drag?

7. What is a viscous liquid?

8. What is terminal velocity?

Click on the terminal velocity graph to watch what happens to the graph when the sky diver descends

9. List 3 to 5 ways to reduce friction.

10. List 3 to 5 ways to use friction to your advantage.

Read and answer the questions about friction on your own.

Friction Questions: (Click on the questions to reveal the answers)

1. What does dry friction depend upon?

2. What is another name for fluid friction?

3. What does fluid friction depend upon?

4. Why do we oil machinery?(use the word "friction" in your answer).

5. Why does a falling object reach a "terminal velocity"?