**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 forces can change.**

**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?**

**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.**

Additional Friction Questions:

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"?