**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?](javascript:MM_openBrWindow('fricq1.htm','fricq1','width=550,height=200,menubar=yes,toolbar=no,status=no,scrollbars=yes,resizable=yes'))  
[2. What is another name for fluid friction?](javascript:MM_openBrWindow('fricq2.htm','fricq2','width=550,height=200,menubar=yes,toolbar=no,status=no,scrollbars=yes,resizable=yes'))  
[3. What does fluid friction depend upon?](javascript:MM_openBrWindow('fricq3.htm','fricq3','width=550,height=330,menubar=yes,toolbar=no,status=no,scrollbars=yes,resizable=yes'))  
[4. Why do we oil machinery?](javascript:MM_openBrWindow('fricq4.htm','fricq4','width=550,height=200,menubar=yes,toolbar=no,status=no,scrollbars=yes,resizable=yes'))(use the word "friction" in your answer).   
[5. Why does a falling object reach a "terminal velocity"?](javascript:MM_openBrWindow('fricq5.htm','fricq5','width=550,height=270,menubar=yes,toolbar=no,status=no,scrollbars=yes,resizable=yes'))