1.2 Day Three Forces in Action

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ #:\_\_\_\_\_\_\_ Section: \_\_\_\_\_\_\_\_\_\_\_

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| **Before I Read** : My understanding of Net Force | **After I read** – How my understanding changed or improved |
| 1.) |  |

Now, read pages 15 – 18 in your Electromagnetic Force Book. Then answer the question that follow.

**2) Using Stick figures, sketch a game of tug-o-war where the net force is 0 (Label the figures with 100 N each so that the net force is 0… \* you’ll need to use a negative sign too!))**

**3) Using the same directions as above, sketch a game where one side pulls with 100 more newtons than the other side. What direction is the motion?**

4. Using the list on page 16, draw a model of how forces are acting upon the object (blue arrows) and how they affect the object’s motion (red Look

Look at page 16 in your purple Electromagnetism book. On the right column there are 4 bullet points. Choose two to illustrate, demonstrating your knowledge of net force. Use larger and smaller arrows to represent the strength of the forces.

5. Think about a tug of war. Team X has three members who pull with the following forces: +180 N, + 190 N, +200 N. Team Y has three members who pull with the following forces: -180 N, -200N, -191. Which team would win? Why?

6. If you have time left and a computer or Laptop is available, please log onto Fossweb.com, click on the Electromagnetic Force Book, and then (under multimedia) select Forces and Motion Basics.