

# Forces and Motion Lab

Name \_\_\_\_\_ Hr. \_\_\_\_\_

Background information:

The force vector describes a specific amount of **force** and its direction. You need both value and direction to have a vector. Scientists refer to the two values as

direction and  
This is a



**magnitude**  
vector:

(size).



This is a vector showing  
Newton's second law of motion-

You can add two vectors by simply joining them head-to-tail:

Vectors can also be added or subtracted to



## Forces and Motion Basics

[Forces and Motion phET](#)

### GETTING STARTED:

- 1) Google PHET Forces and Motion Basics
- 2) Click on the 1<sup>st</sup> hit.
- 3) Click Run Now!
- 4) **WARM UP: (TUG OF WAR)**

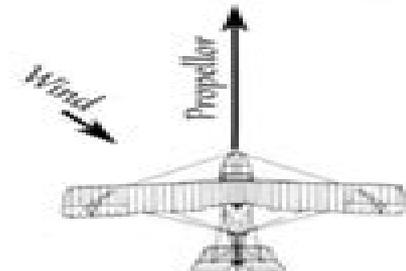
Make sure all of the boxes in the upper right hand corner are checked.

Create a scenario on the rope pull which in which the forces are **BALANCED**. Draw a picture of the **VECTOR ARROWS** and the **NET FORCE (SUM OF FORCES) ARROW** in the space below.

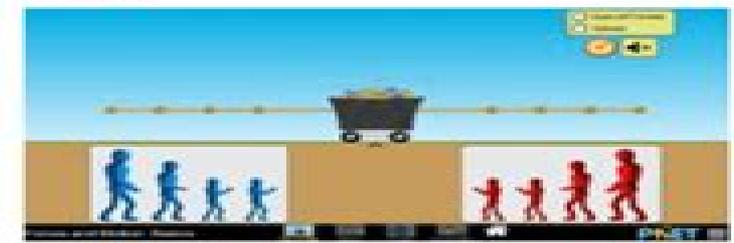
1. What is the **NET FORCE** on the cart?
  - a. Balanced
  - b. unbalanced
  - c. net force
  - d. none of these

Create a scenario on the rope pull in which the forces are **UNBALANCED**. Draw a picture of the **VECTOR ARROWS** and the **NET FORCE (SUM OF FORCES) ARROW** in the space below.

2. What is the **NET FORCE** on the cart?
  - a. Balanced
  - b. unbalanced
  - c. net force
  - d. none of these



show motions.



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**PT Brinkman**



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