

# 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

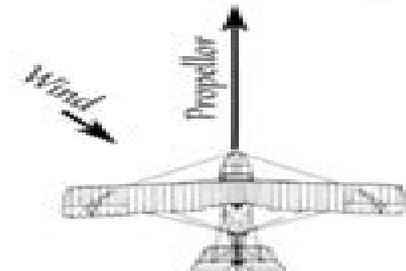
Create a scenario on the rope pull in which the forces are **UNBALANCED**. Draw a picture of the **VECTOR ARROWS** and the **NET FORCE (SUM OF FORCES) ARROW** in the space below.

2. What is the **NET FORCE** on the cart?

- a. Balanced                      b. unbalanced

c. net force

d. none of these



show motions.



# Science Review Forces Section 1 Answer Key

**M Mark**



## Science Review Forces Section 1 Answer Key:

**Cliffsnotes GED Cram Plan** Murray Shukyn, Dale Edwin Shuttleworth, Achim K. Krull, 2014-11-25 Provides advice for individuals with two months one month or one week to prepare for the GED test on how to study and offers a diagnostic text reviews of the five subject areas a practice test in each area and tips on reading comprehension **Prentice Hall Science Explorer** Michael J. Padilla, 2002 **Science Interactions**, 1998 Physics for Science and Engineering Paul M. Fishbane, Stephen Gasiorowicz, Stephen T. Thornton, Princeton University. Department of Physics, 1993 *United States Code* United States, 2012 United States Code, **Science Interactions** Robert W. Avakian, 1995-07-17 **United States Code 2012 Edition Supplement V**, **McDougal Littell Science** McDougal Littell Incorporated, 2005 **Focus on Earth Science**, 2001 **Earth Science**, 2001 *Boston Journal of Chemistry and Popular Science Review*, 1881 *Science* John Michels (Journalist), 1884 A weekly record of scientific progress *Aeronautical Engineering Review*, 1957 Motion, Forces Prentice-Hall Staff, 1994 Reviewed in *The Textbook Letter* 3 4 94 **Academy; a Weekly Review of Literature, Learning, Science and Art**, 1876 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 **Farmers' Review**, 1903 The American Political Science Review Westel Woodbury Willoughby, John Archibald Fairlie, Frederic Austin Ogg, 1928 American Political Science Review APSR is the longest running publication of the American Political Science Association APSA It features research from all fields of political science and contains an extensive book review section of the discipline **Iron & Coal Trades Review**, 1923 Vol 115 includes Diamond jubilee issue 1867 1927 Index of the Periodical Dental Literature Published in the English Language, 1921

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