

# 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

**Puja Mehta**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle behind it.

**Science Review Forces Section 1 Answer Key:**

## Science Review Forces Section 1 Answer Key Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Science Review Forces Section 1 Answer Key**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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