

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 1st 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

Yan Bai

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

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The Top Books of the Year Science Review Forces Section 1 Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Science Review Forces Section 1 Answer Key : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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