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SPH3U1 - Unit 2: Fan Cart Physics

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: acceleration, force, friction, mass, newton, Newton's first law, Newton's second law, Newton's third law, velocity

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Imagine a horse pulling a cart. What would happen to the speed of the cart if several bags of cement were added to the cart?

The cart will slow down due to the mass increasing and the more force it'll take to move the cart.

2. Suppose several more horses were hitched up to the same cart. How would this affect the speed of the cart?

The cart would speed up as there is more force this time.

Although these questions may seem simple, they form the basis of **Newton's second law** of motion. The *Fan Cart Physics* Gizmo can be used to illustrate all three of Newton's laws.

Gizmo Warm-up

The *Fan Cart Physics* Gizmo shows a common teaching tool called a fan cart. Place fan **A** on the cart and turn it on by clicking the **ON/OFF** button below.

1. Look at the blue lines coming from the fan. In which direction is the air pushed?

to the left

2. Press **Play** (▶) and observe the cart. In which direction does the cart move?

to the right



By blowing to the left, the fans exert a **force** on the cart that pushes it to the right. This illustrates **Newton's third law**. A force in one direction results in an equal force in the opposite direction.

3. The **velocity** (v) of the cart is its speed and direction. Click **Reset** (↺). Select the **BAR CHART** tab, and click **Play**. Does the velocity change or stay the same? A change in velocity is called **acceleration** (a).

yes it changes

Gizmo Fan Cart Physics Answers

Yan Bai

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Yan Bai'.

Gizmo Fan Cart Physics Answers:

Gizmo Fan Cart Physics Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. Gizmo Fan Cart Physics Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding 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 mesmerizing 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 bestselling 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 engaging stories waiting to be discovered. The novel begins with Richard Papen, 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 gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://staging.conocer.cide.edu/book/Resources/index.jsp/Lincoln%20Car%20Service%20Chinatown.pdf>

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