

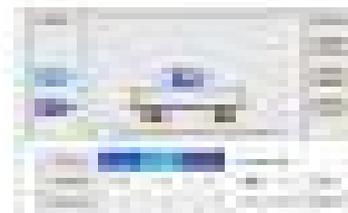
## Student Exploration: Fan Cart Physics

**Essential Question:** How do forces affect motion? How do objects respond to forces that are balanced or unbalanced? How do forces interact?

**Prior Knowledge:** [Qualitative Understanding of Newton's Laws](#) ([Link](#))

1. Suppose a fan cart is being pulled to the left. What would happen if the speed of the fan blades were kept constant while pulling forces were 1 N to the right and the cart started moving to the right?

2. Suppose instead that the fan blades were turned up for the same cart. How would the speed of the cart change? The amount of force you put into the fan would change, but the pulling force would remain the same. How does the **amount of force** affect motion? How do **force** and **velocity** relate? How do **force** and **acceleration** relate?



### Activity Overview

The Fan Cart Physics simulation is a computer simulation that models how fan carts move. An **object** is a mass that can move along a track. The following activity describes the simulation. Some steps follow.

1. **Initial Conditions:** Turn on the fan. Set the fan speed to **High** and pull to the right with a force of **1 N**.

2. **Start (Play):** **Start** the simulation and let the cart move. How does the cart's motion change?

3. **Change the fan speed:** Turn the fan speed to **High** and let the cart move. How does the cart's motion change? How does the fan speed affect motion? How does the fan speed affect acceleration?

4. **The velocity** of an object is the speed and direction of the object. How does the fan speed affect the cart's velocity? How does the fan speed affect the cart's acceleration?

5. **Change the pulling force:** Turn the pulling force to **2 N**.

6. **Start:**

Velocity:	What is the velocity?	
Acceleration:	What is the acceleration?	
Net Force:	What is the net force?	

**Question:** How do forces affect the cart's motion? How do forces affect acceleration?

# Fan Cart Physics Key

**AW Rasmussen**



## Fan Cart Physics Key:

Deep Learning in Introductory Physics Mark J. Lattery, 2016-10-17 *Deep Learning in Introductory Physics* explores how students learn physics in a model centered classroom It addresses the coherence vs fragmentation debate and suggests that deep science learning is regressive and revolutionary

**Active Learning: Theoretical Perspectives, Empirical Studies and Design Profiles** Robert Cassidy, Elizabeth S. Charles, James D. Slotta, Nathaniel Lasry, 2019-07-11 This book represents the emerging efforts of a growing international network of researchers and practitioners to promote the development and uptake of evidence based pedagogies in higher education at something a level approaching large scale impact By offering a communication venue that attracts and enhances much needed partnerships among practitioners and researchers in pedagogical innovation we aim to change the conversation and focus on how we work and learn together i e extending the implementation and knowledge of co design methods In this first edition of our Research Topic on Active Learning we highlight two of the three types of publications we wish to promote First are studies aimed at understanding the pedagogical designs developed by practitioners in their own practices by bringing to bear the theoretical lenses developed and tested in the education research community These types of studies constitute the practice pull that we see as a necessary counterbalance to knowledge push in a more productive pedagogical innovation ecosystem based on research practitioner partnerships Second are studies empirically examining the implementations of evidence based designs in naturalistic settings and under naturalistic conditions Interestingly the teams conducting these studies are already exemplars of partnerships between researchers and practitioners who are uniquely positioned as in between straddling the two worlds As a result these publications represent both the rigours of research and the pragmatism of reflective practice In forthcoming editions we will add to this collection a third type of publication design profiles These will present practitioner developed pedagogical designs at varying levels of abstraction to be held to scrutiny amongst practitioners instructional designers and researchers alike We hope by bringing these types of studies together in an open access format that we may contribute to the development of new forms of practitioner researcher interactions that promote co design in pedagogical innovation

**Announcer** American Association of Physics Teachers, 2003

**RealTime Physics** David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 1999 This computer based lab manual contains experiments in mechanics thermodynamics E M and optics using hardware and software designed to enhance readers understanding of calculus based physics concepts It uses an active learning cycle including concept overviews hypothesis testing prediction making and investigations

The Mechanical World ,1920

**The Publishers' Circular and Booksellers' Record** ,1909

*English Mechanic and Mirror of Science* ,1889

*English Mechanic and Mirror of Science and Art* ,1906

English Mechanic and World of Science ,1907

Scientific American ,1882 Monthly magazine devoted to topics of general scientific interest

The Engineer ,1883

Science Dimension ,1985

**Science Interactions** Robert W. Avakian, 1995-07-17

*Forbes* ,2001

*Current Index*

*to Journals in Education* ,1995      *Journal of Education* ,1891      **Agrindex** ,1985      73 *Amateur Radio Today* ,1994  
*Popular Mechanics Magazine* Henry Haven Windsor,1958      **Look** ,1961-09

## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Fan Cart Physics Key**

In some sort of inundated with screens and the cacophony of instantaneous connection, the profound power and psychological resonance of verbal beauty frequently diminish in to obscurity, eclipsed by the constant onslaught of sound and distractions. However, located within the lyrical pages of **Fan Cart Physics Key**, a captivating work of literary splendor that pulses with raw emotions, lies an wonderful journey waiting to be embarked upon. Published with a virtuoso wordsmith, this magical opus courses visitors on a psychological odyssey, softly exposing the latent potential and profound impact embedded within the delicate web of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is central subjects, dissect its interesting writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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