



Name: _____

Date: _____

Student Exploration: Fan Cart Physics

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? It would slow down, as the greater the mass the more force it takes to move / accelerate.
2. Suppose several more horses were hitched up to the same cart. How would this affect the speed of the cart? It would speed up.

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? _____
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? It increases.
A change in velocity is called **acceleration** (a).



Explore Learning Fan Cart Physics Answer Key

Mark J. Lattery



Explore Learning Fan Cart Physics Answer Key:

Deep Learning in Introductory Physics Mark J. Lattery, 2016-10-01 Deep Learning in Introductory Physics Exploratory Studies of Model Based Reasoning is concerned with the broad question of how students learn physics in a model centered classroom The diverse creative and sometimes unexpected ways students construct models and deal with intellectual conflict provide valuable insights into student learning and cast a new vision for physics teaching This book is the first publication in several years to thoroughly address the coherence versus fragmentation debate in science education and the first to advance and explore the hypothesis that deep science learning is regressive and revolutionary Deep Learning in Introductory Physics also contributes to a growing literature on the use of history and philosophy of science to confront difficult theoretical and practical issues in science teaching and addresses current international concern over the state of science education and appropriate standards for science teaching and learning The book is divided into three parts Part I introduces the framework agenda and educational context of the book An initial study of student modeling raises a number of questions about the nature and goals of physics education Part II presents the results of four exploratory case studies These studies reproduce the results of Part I with a more diverse sample of students under new conditions a public debate peer discussions and group interviews and with new research prompts model building software bridging tasks and elicitation strategies Part III significantly advances the emergent themes of Parts I and II through historical analysis and a review of physics education research

ENDORSEMENTS In *Deep Learning in Introductory Physics* Lattery describes his extremely innovative course in which students ideas about motion are elicited evaluated with peers and revised through experiment and discussion The reader can see the students deep engagement in constructive scientific modeling while students deal with counter intuitive ideas about motion that challenged Galileo in many of the same ways Lattery captures students engaging in scientific thinking skills and building difficult conceptual understandings at the same time This is the double outcome that many science educators have been searching for The case studies provide inspiring examples of innovative course design student sensemaking and reasoning and deep conceptual change John Clement University of Massachusetts Amherst Scientific Reasoning Research Institute *Deep Learning in Introductory Physics* is an extraordinary book and an important intellectual achievement in many senses It offers new perspectives on science education that will be of interest to practitioners to education researchers as well as to philosophers and historians of science Lattery combines insights into model based thinking with instructive examples from the history of science such as Galileo s struggles with understanding accelerated motion to introduce new ways of teaching science The book is based on first hand experiences with innovative teaching methods reporting student s ideas and discussions about motion as an illustration of how modeling and model building can help understanding science Its lively descriptions of these experiences and its concise presentations of insights backed by a rich literature on education cognitive science and the history and philosophy of science make it a great read for everybody

interested in how models shape thinking processes Dr J rgen Renn Director Max Planck Institute for the History of Science
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