

## RST.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context

### Student Exploration: Force and Fan Carts

**Vocabulary:** force, friction, position, speed

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

1. If you are pushing a shopping cart and you start pushing harder, what happens?

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2. What happens to a shopping cart if you get it rolling and then release it?

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Gizmo Warm-up

1. In the Gizmo™, turn the fan Off. Click Play (▶). Did the cart move? \_\_\_\_\_

2. Click Reset (↺). Press the Low fan speed button to turn on the fan. Click Play. What happened?

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3. A **force** is something that causes change in motion. What provided the force that made the cart speed up?

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4. The speedometer shows the cart's **speed**, or how fast it moves. A speed of 30 cm per second means the cart moves 30 cm every second. What was the final speed of the cart?

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5. **Friction** is a force that works against motion as surfaces rub each other. Click Reset. Select the low friction surface. Click Play. What was the final speed this time?

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### LESSON MATERIALS:

#### ▼ Student Exploration Sheet

Word | PDF

#### ▼ Exploration Sheet Answer Key

Word | PDF

#### ▼ Teacher Guide

Word | PDF

#### ▼ Vocabulary Sheet

Word | PDF

#### • Assessment Questions

# Gizmos Explore Learning Answers

**JL Elias**

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

## **Gizmos Explore Learning Answers:**

Teaching and Learning Online Franklin S. Allaire, Jennifer E. Killham, 2023-01-01 Science is unique among the disciplines since it is inherently hands on. However, the hands on nature of science instruction also makes it uniquely challenging when teaching in virtual environments. How do we as science teachers deliver high quality experiences to secondary students in an online environment that leads to age grade level appropriate science content knowledge and literacy but also collaborative experiences in the inquiry process and the nature of science? The expansion of online environments for education poses logistical and pedagogical challenges for early childhood and elementary science teachers and early learners. Despite digital media becoming more available and ubiquitous and increases in online spaces for teaching and learning, Killham et al 2014, Wong et al 2018, PreK-12 teachers consistently report feeling underprepared or overwhelmed by online learning environments. Molnar et al 2021, Seaman et al 2018. This is coupled with persistent challenges related to elementary teachers' lack of confidence and low science teaching self efficacy. Brigido, Borrachero, Bermejo, Gunning, Duran, Duran 2004. Ideal for undergraduate teacher candidates, graduate students, teacher educators, classroom teachers, parents, and administrators, this book addresses why and how teachers use online environments to teach science content and work with elementary students through a research based foundation.

**Using Technology with Classroom Instruction that Works** Howard Pitler, 2007. What kinds of technology will support particular learning tasks and objectives? And how does a teacher ensure that technology use will enhance instruction and not be a distraction or a disconnected add on? You'll find the answers here. This book builds on the landmark *Classroom Instruction that Works* by linking each of the nine categories of effective instructional strategies with educational technology applications and resources. Each strategy focused chapter features cross curricular examples, many drawn from actual lesson plans, projects, and products. In addition to stories of students learning through inquiry, collaborative projects, games, and other activities that make school exciting and meaningful, you'll find dozens of recommended resources along with expert guidance on planning technology enhanced lessons aligned with national standards.

*Using Physical Science Gadgets and Gizmos, Grades 6-8* Matthew Bobrowsky, Mikko Korhonen, Jukka Kohtamäki, 2014-04-01. What student or teacher can resist the chance to experiment with Rocket Launchers, Sound Pipes, Drinking Birds, Dropper Poppers, and more? The 35 experiments in *Using Physical Science Gadgets and Gizmos, Grades 6-8* cover topics including pressure and force, thermodynamics, energy, light, and color, resonance, and buoyancy. The authors say there are three good reasons to buy this book: 1. To improve your students' thinking skills and problem solving abilities. 2. To get easy to perform experiments that engage students in the topic. 3. To make your physics lessons waaaaay more cool. The phenomenon based learning (PBL) approach used by the authors, two Finnish teachers and a U.S. professor, is as educational as the experiments are attention grabbing. Instead of putting the theory before the application, PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why. Students engage in the activities not as a

task to be completed but as exploration and discovery The idea is to help your students go beyond simply memorizing physical science facts Using Physical Science Gadgets and Gizmos can help them learn broader concepts useful thinking skills and science and engineering practices as defined by the Next Generation Science Standards And thanks to those Sound Pipes and Dropper Poppers both your students and you will have some serious fun For more information about hands on materials for Using Physical Science Gadgets and Gizmos books visit Arbor Scientific at <http://www.arborsci.com> nsta kit middle school Using Physics Gadgets and Gizmos, Grades 9-12 Matthew Bobrowsky, Mikko Korhonen, Jukka Kohtamäki, 2014-03-01 What student or teacher can resist the chance to experiment with Rocket Launchers Drinking Birds Dropper Poppers Boomwhackers Flying Pigs and more The 54 experiments in Using Physics Gadgets and Gizmos Grades 9 12 encourage your high school students to explore a variety of phenomena involved with pressure and force thermodynamics energy light and color resonance buoyancy two dimensional motion angular momentum magnetism and electromagnetic induction The authors say there are three good reasons to buy this book 1 To improve your students thinking skills and problem solving abilities 2 To acquire easy to perform experiments that engage students in the topic 3 To make your physics lessons waaaaay more cool The phenomenon based learning PBL approach used by the authors two Finnish teachers and a U S professor is as educational as the experiments are attention grabbing Instead of putting the theory before the application PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why Students engage in the activities not as a task to be completed but as exploration and discovery The idea is to help your students go beyond simply memorizing physics facts Using Physics Gadgets and Gizmos can help them learn broader concepts useful critical thinking skills and science and engineering practices as defined by the Next Generation Science Standards And thanks to those Boomwhackers and Flying Pigs both your students and you will have some serious fun For more information about hands on materials for Using Physical Science Gadgets and Gizmos books visit Arbor Scientific at <http://www.arborsci.com> nsta kits **ENC Focus** ,1997 **CD-ROMs and Laserdiscs for Science** ,1997 *InfoWorld* ,1995-09-25 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects InfoWorld ,1995-07-17 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects New York Magazine ,1997-04-28 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea **InfoWorld** ,1993-08-30 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects *PC World* ,1995 **Understanding Basic**

**Electronics** Larry D. Wolfgang, American Radio Relay League, 1992 Written in an easy to understand style for electronic beginners Understanding Basic Electronics is also for those who want to brush up on electronic principles Loaded with illustrations the book starts with math skills and progresses to DC and AC electronics principles **School Library Journal**, 2008 **MicroComputer Journal**, 1995

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