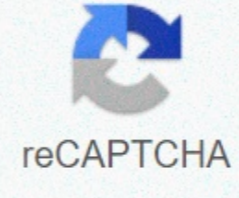




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Cpo science physical science answer key

To maximize your viewing experience of this digital catalog, we recommend installing Adobe Flash Player Plugin. This installation will take only a few moments. If you are experiencing any problems with installation, please contact your System Administrator. Plus, it's possible to see a simplified version of the book on any device. No text content! Section 4.2 CHAPTER 4 ANSWERS 11. 150N 12. 17. If the 100 N power and the 200 N power point in the same direction, and the 300 N force is pointed in the opposite direction, the forces shall be in 13. Equilibrium. Section 4.3 18. $F_{net} = 1500\text{ N} = 400\text{ N} + 300\text{ N} + 250\text{ N} + F_4$ 14. Answers are: $F_4 = 550\text{ N}$ The weight vector reped, the normal forces push a. 40 N left b. 25 N to 15. 16. 9 N 4.3 FORCES AND EQUILIBRIUM 81Chapter 5: Newton's Laws of Motion Sequence Learning Goals Activities and Resources Language Tools Section 5.1: 1. Full Chapter 5 • Describes how forces cause Laboratory Investigation 5A: Power and Literary Pick-up Newton's pretext. changes in motion. Accelerating Vocabulary: Newton's First Law, First Law Teacher's Resource CD: unbalanced powers, sluggishness 2. Read Section 5.1, pp. • Demonstrate and describe • Chapter 5 Pretext Word origin: sluggishness Four 45-108 to 110. Newton's first law. • Skill and Practice: Isaac Newton Biography minute class • Graphic Organizer: Newton's Laws of Motion 3. Full investigation • Explain the meaning of net Teaching illustrations CD: periods 5A: Power and power. • Newton's first law, example of a Newton Acceleration. 4. Complete Section review on page 111. Section 5.2: 1. Full investigation • Define Newton's second law Lab Investigation 5B: Newton's Second Vocabulary: Newton's Second Law Newton's 5B: Newton's Second by Relating to Power, Mass, and Legal Law. Acceleration. Second Law Teacher's Resource CD: 2. Read Section 5.2, pp. • Apply Newton's Second Law • Skill and Practice: Newton's Second Act Celebrates 45-112 to 115 and Quantitatively. minute class full Division Teaching Illustrations CD: Reviewed on page 116. • Describe the relationship • Newton's Second Law, Comparison for Newton's periods between net power and acceleration. Second Law, Objects in Free Fall Section 5.3: 1. Read Section 5.3, pp. • Describe action response connection: Rockets: From this World Travel Vocabulary: Newton's third law Newton's 117 to 120 and power pairs. Closing Cards Third Act complete Division Chapter Activity: Make a Spool Motor Review on page 121. • Explain what happens when Three 45 objects collide in terms of Teacher's Resource CD: minute class 2. Complete Chapter Newton's third law. • Skill and Practice: Application of Newton's Laws Assessment, pp. 125 to 126 periods. • Identify everyday examples Teaching illustrations CD: from third law. • Newton's Third Act 82 UNIT 3: LAWS LAWS MOVEMENT AND ENERGY CHAPTER 5 RESOURCES Allied Strategies Materials These resources and more at curiosityplace.com ELL Strategies: Listed in the ELL Supplemental Inquiry 5A: CPO timer, photogate, motor and learning strategies: ramp, physics standing, clay, string, lanyard cuts (after • Printable Student Masters • Simulations • Active Learning - Engage string motor), level, meter stick, masking • Assessment • Science content videos • Cooperative Learning - Examine 5A tape, indelible fine-point marker • Answer Keys • Equipment setup videos • Standards : library book cars • Presentation slides • E-books Teaching tips: Spin eggs, Addressing Physics Teaching Tip: one raw egg, one hard-boiled egg misconceptions NGSS Connection: Chapter 5 Learning Strategies: Investigation 5B: CPO timer, Photogates, car and performance expectations • Teacher Demonstrations - Engaging: Newton's Second Act ramp, physics standing, steel weights, clay, string, lanyard cuts (to attach string to car, level, masking This chapter builds conceptual understanding and • Cooperative Learning - Examining 5B tape, balance or digital scale skills for following performance expectations. • Guided Practice - Explain: Newton's Second Law Teacher Demonstrations: small notebook or path of MS-PS3-1. Build and interpret graphic paper, textbook, sand, plastic container, small heavy displays of data to describe the ratios of • Active Research and Discussion - Extensive rock or piece of concrete kinetic energy to the mass of an object and the speed of an object. Teaching tips: Teacher demonstrations: Newton's Second Law, Acceleration, Relationships between Variables Science and Engineering Practices • Using Mathematics and Learning Strategies: Engaging: action cartoon shorts Computational Thinking • Active Learning - Engage • Planning and conducting investigations expand: Newton's cradle, Balloons • Analysis and interpreting of data • Cooperative Learning: Exploring: Designing a Catapult • Building Explanations and Chapter Activity: WirePools, Different Rubber Design Solutions • Guided Discussion - Explained : What law is this? Bands (approximately 2- to 3-cm long), metal washers (about 2 cm in diameter) Physical Science Core Ideas • Active Learning: Extended • Movement and Stability: Forces and Interactions Teaching Tips: Addressing Misconceptions about Action • Energy Response Powers, Applying Newton's Laws Crossroads • Stability and Change • Systems and System Models 835.1 About the Lesson Title level In this lesson, students learn about how the forces acting on an object relate to the object's mass and movement. Students learn about inertibility and applications from Newton's first 3-5 powers and From pushing to law. Push by Christopher Cooper Asks Students to make a list of things that don't move. Students usually generate Science Answers are the title of these interesting lists. Some students will list small unpleasant objects such as a pencil or a book. science series by Heinemann Library. The Others will list objects so massively that they may seem impossible to move, such as a book offering answers and connections to mountain. Compiling a list of student responses on a white board. Ask students who object to everyday life events. Includes will require the least amount of power to move. Why? Arrange the objects according to how experiments leading up to discovery would require a lot of power to move them. Help students make the connection between learning and address students' curiosity. the amount of mass in an object and the power necessary to put it into effect. 6-8 Forces & Movement by Peter Riley Part of the Science Topics series designed specifically to complement middle school curricrgars. Key topic concepts are examined and examples of actual applications are explained. Includes colored photos and glossary. Students complete Investigation 5A after reading section 5.1. Students observe the motion 9-12 The Story of Science: Newton at the van a car on a flat track while a force is applied and when the power is removed. Center by Joy Hakim Students measures the car's speed at various points and sees the car accelerate when there is a net power and moves at a constant speed when the net power is zero. Newton is the focus in this second book series by Hakim as she describes the INVESTIGATION 5A: POWER AND ACCELERATION Discoveries of movement, gravity and light. Includes sidebar information and complete setup material vocabulary color illustrations and graphics. 1. Allow one class period to complete the • CPO Timer and one power investigation. photogate position Car and ramp speed 2. Students work in small groups. • Physics stand acceleration 50 grams of clay only strength 3. Decide whether the timers will run on • 1.25 metre string lanyard clip string batteries or with AC adaptors to attach. Then make • to make sure there are electrical outlets within reach • level of each laboratory group or that the batteries in the • meter rod work small piece of masking tape timers. • indelible fine-point marker • 4. Measure approximately 50 grams of clay for • each group. • 84 UNIT 3: LAWS OF MOVEMENT AND ENERGY Inertia 5.1 NEWTON'S FIRST ACT Ask students to think that they are pushing an empty grocery cart across a parking lot. Then ask, Is a Word Origin . . . a lot of power needed to get the cart moving? Once the cart is in motion, when does it stop moving? Not a great deal of power is needed to start the wagon moves. Students Inertia (from Latin iners that mean inactivity or respond that the cart stops moving when it with a car or another object in the missing skill) parking lot. Inertia is defined as the ability of an object to resist Say to Students. Now envision the shopping cart full of groceries. How does the mass turn into motion. Ironically, sluggishness shares its origins of the groceries the movement of the shopping cart? Is it easier to initiate movement of with inert, a term often used to describe noble gases the empty cart or the filled cart? Why? Once both carts move, which ones remain in on the periodic table that for the most part movement lasts longer without interference from any outside power? Inactive. You can simulate this example by using two book carts. Ask the school librarian to borrow When studying about inertia, students learn that a cart. Fill one cart with books and leave the other empty. Give each cart a soft pressure body in motion staying in motion, or that a body is serene (by applying equal strength) and letting students measure the distance each cart travels. What remains serene unless acted by an exterior travels further? Of course, the empty cart travels the greater distance. Then ask students forcing. One way to express this is to say that a body to think about how much power should be applied to the filled cart for it to travel the same lacks the skill or ability to change its pattern from distance as the empty cart. Allow a few students to try to push the cart with just the right movement on its own. Only power can cause change in the amount of power to accomplish this task. Then let students tell which cart has the most movement. inertibility and explain how they arrived at this answer. Teaching Tip . . . 1. Let students use the internet or other resources to learn about Galileo's experiment with metal balls and ramps that led to him introducing the idea of inertibility. Their spin eggs research should answer the following questions: Use one raw egg and one boiled egg to demonstrate • Describe Galileo's experiment. the consequences of forces. Spin each egg (on its side). Did students use a stopwatch to determine how • What was the result of his experiment? long each egg rotates. Which egg turns longer? Ask students to describe how friction affects the amount • How did Galileo's work contradict Aristotle's ideas about objects in motion? time each egg rotates. 2. Encourage your students' creativity as they work in pairs to design experiments that rewind the eggs. This time gently tapping the egg demonstrates Newton's first law. Allow class time for teams who want to share their finger. Do both eggs stop moving? Students experiment with classmates. should observe that the raw egg movement resumes. The liquid portion of the egg has inertibility. Therefore, it does not stop moving until a large enough force is applied to overcome the consequences of its inertibility. Students completed complete 5.1 review questions. 5.1 NEWTON'S FIRST ACT 85Investigation 5A: Power and Acceleration Suppose a car runs out of gas on a flat road, and you want to get it to a petrol station that examines 5A Force and Acceleration 500 feet away. What should you do to get the car to move? 5A Power and Acceleration You must apply a power. What happens when power is applied to something that can move? What happens to the car's speed if you keep pushing the car with a steady force as it moves? The car accelerates or accelerates. Forces affect movement, but exactly how are Materials • 1.25-m String movement affected? Do objects ahead with • Lanyard clip Today you will use a string to apply a force to a car rolling on a driveway. You'll post a move? Are they speeding up or slowing them down? • CPO Timer and • Level photoholes at different points on the track so that you can determine the car's speed. In this investigation you will see that 1 photohole • Meter rod strength causes acceleration. The effect of • Indelible fine-point marker or pen power is to change speed, resulting in • Motor and ramp • Masking tire acceleration. • Physics Stand • 50 g clay A Pull the motor with a force A Pull the motor with a force 1. Sticking a small piece of tire onto the wing of First you need to set up the car and the driveway. Place a tire on the wing of the car and the car, and draw an arrow in the middle. draw an arrow on it. The arrow will be used as a pointer to show the car's position. Rest one side of the driveway on a chair or table. Attach the other side of the ramp to the physics stand as shown 2. Set the end of the driveway on a table or chair. in the picture. Make the ramp as level as you can. Attach the driveway to the physics stand so that the driveway is flat. The ramp must be attached to the stand between holes 10 and 13. Students can use low desks if they place books or other objects on top of them and rest the free end of the track 3. Use a level to get the ramp as shallow as you get on the books. Have some scrap paper, blocks or extra clay available for students to use to use. You may need to shine their tracks at the end of the level, the driveway to get it level. Once your driveway looks flat, use your level to see if it is. Adjust it if necessary. 4. Attach the queue at the end of the car with Check to see that students' tracks are shallow, the clip. Attach a clay ball about 4 centimeters in diameter to the rope. Cut one side of the rope to the car. Start the string over the pulley on the other side of the track. Place the clay ball so that it is just under/neath Attach the clay ball to the rope right under the pulley as shown in the picture. the pulley when the car is at the end of the driveway. A 50-gram mass can be tied to the rope in

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