

Physical Science Motion and Forces Worksheet

1. What is the force on an object that goes from 3.5 m/s to 85 m/s in 20 seconds and has a mass of 148 kg?
2. Calculate the force on an object that has a mass of 12 kg and an acceleration of 4 m/s².
3. During a race, a sprinter increases from 5.0 m/s to 7.5 m/s over a period of 1.25 s. What is the sprinter's average acceleration during this period?
4. A motorcycle has a mass of 250 kg and a velocity of 68 m/s, what is it's momentum?
5. A 3,000-N force acts on a 200-kg object. The acceleration of the object is _____.
6. A truck travels to and from a stone quarry that is located 2.5 km to the east. What is its distance? What is its displacement?
7. A cross-country runner runs 10 km in 40 minutes. What is his average speed?
8. A runner went from 6 m/s to 2 m/s in 2 seconds, what was his acceleration?
9. A dog travels 250 meters east in 8 seconds. What is the velocity of the dog?
10. A large truck loaded with scrap steel weighs 14 meters tons and is traveling north on the interstate heading for Chicago. It has been averaging 48 km/h for the journey and has travelled over 1450 km so far. ~~It has just stopped~~ to refuel. What is its current momentum?
11. James rode his bike 0.65 hours and traveled 8.45 km. What was his speed?
12. A 10-kg wagon has a speed of 25 m/s. What is its momentum?
13. A dog travels north for 18 meters, east for 8 meters, south for 27 meters and then west for 8 meters. What is the distance the dog traveled and what is the displacement of the dog?
14. Brittany drove at a speed of 85 km / hr south for 4 hours. How far did she travel?
15. What is the mass of an object that has a force of 89 N and an acceleration of 25 m/s²?
16. What is the force acting on an object with a mass of 2489 kg and an acceleration of 6.25 m/s²?
17. The driver of a pickup truck drove at a velocity of 75.0 km/hr for 35 minutes. What distance did the bus travel?
18. A high speed train travels with an average speed of 217 km/h. The train travels for 2 h. How far does the train travel?
19. A 300-N force acts on a 25-kg object. The acceleration of the object is _____.
20. A 10.0 kg dog chasing a rabbit north at 6.0 m/s has a momentum of _____.
21. Newton's first law of motion is also called the law of _____.
22. The statement "to every action there is an equal and opposite reaction" is _____.
23. The law that states that the unbalanced force acting on an object equals the object's mass times its acceleration is _____.
24. Which of the following best illustrates balanced forces? a) a rock falling to the ground b) ~~a stretched rubber band being held between two hands~~ c) a person lifting a heavy box off of the ground d) a crash between a large truck and a train
25. _____ forces acting on an object cause the object to accelerate.
26. Sally sits on a rock. Her weight is an action force. Describe its reaction force.
27. Friction is a force that _____ motion between two surfaces that are touching each other.
28. At the same speed, a bowling ball is harder to stop than a soccer ball because the bowling ball has greater _____.
29. Why is your weight less on the Moon than on Earth, but your mass is the same?
30. The size of the gravitational force between two objects depends on their _____ and _____.
31. The law that states that every object maintains constant velocity unless acted on by an unbalanced force is _____.
32. A tug-of-war that results in one team pulling the other across the line is an example of ~~_____ forces~~.
33. 1. An object in motion at a constant velocity will change its motion only if a(n) _____ force acts on it.
34. The law that states that for every action force there is an equal and opposite reaction force is _____.

Physical Science Motion And Forces Edgenuity Answers

Minjie Lin



Physical Science Motion And Forces Edgenuity Answers:

Motion and Forces ,2005 *Motion, Forces, and Energy* Michael J. Padilla,Peter Kahan,2002 Forces and Motion Christopher Cooper,2003 This series provides an information library on the main aspects of physical science with an emphasis on enquiry answering the questions that children ask addressing the topics that they are required to research at this level and using familiar examples **McDougal Littell Science** McDougal Littell Incorporated,2005 **Hands-On - Physical Science: Force and Motion Gr. 1-5** George Graybill,2016-10-01 This is the chapter slice Force and Motion Gr 1 5 from the full lesson plan Hands On Physical Science Get your students excited about energy and all things that move with our Hands On Physical Science resource for grades 1 5 Combining Science Technology Engineering Art and Math this resource aligns to the STEAM initiatives and Next Generation Science Standards Study balanced and unbalanced forces by dropping different objects to measure the effect of gravity and air resistance on them Measure the distance of lightning by watching and listening for thunder Get into groups and make models of water sound and light waves Experience static electricity first hand by getting a balloon to magically stick to a wall Describe a solid liquid and gas around your home by its properties Make a compound machine with your classmates by combining at least two simple machines Each concept is paired with hands on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts Reading passages graphic organizers before you read and assessment activities are included *Forces and Motion* Catherine A. Welch,2006 Introduces the connection between force and motion and describes the effects of air resistance mass and gravity Provided by publisher Forces and Motion Kathleen Connors,2018-07-15 Newton s laws aren t the easiest science topics to digest Struggling readers likely find understanding them even harder This volume breaks down the topics of force and motion to its most basic and understandable parts perfect to introduce to readers having a hard time or students looking to review for class Written in succinct language each chapter contains fact boxes and graphic organizers to aid all readers as they move from speed to velocity and on **Forces and Motion** Leon Gray,2013-08-01 Readers will learn all about gravity friction and more through explanations using both familiar and extraordinary situations Bright colorful photographs will keep readers engaged as the forces are shown at work in exciting ways such as in skydiving rollercoaster construction and super fast cars I Like To Move It! Physical Science Book for Kids - Newton's Laws of Motion | Children's Physics Book Professor Beaver,2017-02-01 If you re playing basketball that s science in action Science is all around us and in everything that we do this even more true for basketball Issac Newton explains the concept of Motion in Physical Science by using Three Laws of Motion In this book you will get the chance to fully understand Newton s Three Laws using a sport we all know and love Basketball Learn who Sir Issac Newton was and dive into Inertia and other great physical science terms that help to explain and simplify exactly how Motion Works *Modules* Holt McDougal,2005 **Forces and Motion** Angela Royston,2014 What happens when forces are balanced Why do moving things slow down How are weight and gravity related Read this

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Jennifer Swanson,2016-06-07 Everything moves Kids run around the playground cars drive on the road and balls fly through the air What causes all this motion Physics Forces and motion rule the way everything moves through space In Explore Forces and Motion With 25 Great Projects readers ages 7 through 10 discover that the push and pull of every object on the planet and in space depends on how a force acts upon it Things float because of a force called buoyancy we stick to the ground because of a force called gravity and we make footprints in sand because of a force called pressure Physics becomes accessible and interactive through activities such as a experimenting with a water cup drop building a bridge and spotting magnetic field lines Simple machines such as levers pulleys and wedges are used as vehicles for discovery and comprehension of the foundational concepts of physical science Using a theme familiar to everyone motion this book captures the imagination and encourages young readers to push pull twist turn and spin their way to learning about forces and motion **Motion and Forces**

Wilene Archibeque,2010 The purpose of this unit is to clarify motion and forces misconceptions Students will view physics as a way of thinking about the world rather than a bunch of facts they are forced to memorize Lessons will addresses student s misconception through hands on activities and class discussions For standard based instruction lessons are aligned to New Mexico 9 12 Physical Science Standards For success in physics an understanding and belief of Newtonian concepts is critical **Forces and Motion**

Casey Rand,2016-08 A discussion of the physics of forces and motion with illustrations charts graphs and a timeline covering terms and concepts such as friction momentum and Newton s laws of motion Forces and Motion David Louis Dreier,2007-10-15 How can a car accelerate yet stay at the same speed What force enables airplanes to fly Why is it almost impossible to sink in the Dead Sea Forces and Motion looks at the forces that operate in the world from the simple pushes and pulls exerted by our muscles to the mysterious force of gravity This book explains how forces such as momentum friction and pressure affect our lives and presents the laws that describe how forces work The Physical Science in Depth series presents a comprehensive look at physical science topics Through an accessible writing style the individual titles provide detailed information on the main

concepts and theories in each subject area and include photographs and diagrams to enhance students understanding Book jacket Expert Reader Ann Fullick is a science specialist and an experienced writer of books for young people Book jacket

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