

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 Worksheet Answers

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Resources for Teaching Middle School Science

Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Te HS&T a* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 *Holt Science and Technology* Holt Rinehart & Winston,2004-02 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students

understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Te HS&T J** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 *Inquire Within* Douglas Llewellyn,2007-05-24 Offering case studies ready to use lessons and teacher friendly materials this updated edition shows educators how to implement inquiry in the science classroom incorporate technology and work with ELLs and special education students **Learning Elementary Science Class 8 Teacher Resource Book (Academic Year 2023-24)** ,2023-05-20 Learning Elementary Science Class 8 Teacher Resource Book Academic Year 2023 24 **Technology's Impact on Student Understanding and Retention of Motion and Forces** James Franklin Preston,2008 Holt Science and Technology Holt Rinehart & Winston,2004 McDougal Littell Science McDougal Littell Incorporated,2005 **Ate Science Plus 2002 LV Red** Holt Rinehart & Winston,2001-02 Popular Mechanics ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **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 *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 **Motion, Forces, and Energy** Michael J. Padilla,Peter Kahan,2002 **Force, Motion & Simple Machines Big Book Gr. 5-8** George Graybill,2007-09-01 Give your students a kick start on learning with our Force and Motion 3 book BUNDLE Students begin by exploring different Forces Conduct several experiments on the force of friction and air resistance Understand that acceleration and deceleration are examples of unbalanced forces Next take the mystery out of Motion Graph the velocity of students walking home from school at different speeds Follow directions to find your way using a treasure map Finally get familiar with Simple Machines Conduct an experiment with first class levers to study distance and force Find the resistance force when walking up an inclined plane Each concept is paired with hands on

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