

8th Grade Physical Science Study Guide

MOTION, FORCES & NEWTON'S LAWS

HOW DO FORCES AND MOTION WORK TOGETHER?

What You Need to Know

- **Motion** is a change in position & direction of an object over a period of time.
- **Speed** = $\text{distance} / \text{time}$
- **Velocity** = speed + direction
- **Acceleration** = change in velocity (speeding up, slowing down, or changing direction)
- **Constant change in motion** (distance) = $\text{time} \times \text{speed}$
- The **distance** an object travels, the **time** it takes to travel
- **Relative motion** (motion relative to your point of view)
- **Newton's laws** explain motion
 - First Law: An object at rest stays at rest unless acted upon by an unbalanced force.
 - Second Law: Force causes acceleration ($F = ma$)
 - Third Law: Every action has an equal and opposite reaction.
- **Mass** = amount of matter
- **Weight** = force of gravity's pull on an object (mass \times gravity)
- **Work** happens when a force causes an object to move in the direction of the force.
- **Energy** is the ability to do work or cause change (moving, heating, etc.)

Real-Life Science Spotlight

Why do you slide further when you go down a ramp?

The answer lies in the force of friction. As you slide down, friction is working against you. The less friction, the further you slide.

Vocabulary to Know

- **Speed** = distance divided by time
- **Velocity** = speed with direction
- **Acceleration** = change in velocity over time
- **Force** = push or pull that causes an object to move
- **Friction** = a force that opposes motion
- **Mass** = how much matter an object has
- **Weight** = gravitational force on an object
- **Work** = work is done when a force causes an object to move
- **Power** = work divided by time
- **Simple Machine** = helps do work by changing the amount, direction, or distance of a force

Models & Visuals to Know

Speed/Time Graph



Force Diagram



Newton's Laws Examples



Ball at Rest



Ball at Rest



Ball in Motion



Simple Machines



Study Tips & Tracker Included

8th Grade Physical Science Study Guide

**New Jersey. Department of Public
Instruction**



8th Grade Physical Science Study Guide:

The 8th Grade Common Core Science Practice Workbook Monica Sevilla,2013-06-13 The 8th Grade Common Core Science Practice Workbook is a must have guide for all middle school students studying the 8th grade California physical science curriculum This comprehensive study guide prepares all 8th grade students for the Common Core physical science exam scheduled to be administered starting 2014 15 academic year Major concepts math skills problem solving and comprehension questions based on the California standards for physical science are emphasized This practice workbook is designed to prepare students academic success Science & Technology Study Guide B With Directed Reading Worksheets Physical Science Grade 8 Holt Rinehart and Winston,Hrw,2007 Science & Technology, Grade 8 Interactive Reader Study Guide Physical Science Hrw,2007 Science Note-Taking Reading Study Guide Physical Science Grade 8 ,2006-03-14

Glencoe Introduction to Physical Science, Grade 8, Study Guide and Reinforcement McGraw-Hill Education,2004-08-02 Study Guide and Reinforcement Worksheets allow for differentiated instruction through a wide range of question formats There are worksheets and study tools for each section of the text that help teachers track students progress toward understanding concepts Guided Reading Activities help students identify and comprehend the important information in each chapter Resources in Education ,1997 **Course of Study in Physical Science for the Junior High School, Grades 7, 8, and 9** New Jersey. Department of Public Instruction,1927 **Science Note-Taking Reading Study Guide Physical Science Grade 8** ,2005-06-09 **Grade 8 Physical Science Lab Manual** ,2021 This lab manual is designed to be used in conjunction with Oak Meadow Grade 8 Physical Science or as a learning supplement for any study of physical science Lab investigations guide students in actively exploring concepts related to chemical reactions forces and interactions energy waves and engineering design Students are also given opportunities to conduct projects of their own design supported by a step by step guidance in project design implementation revision and reflection Materials lists clear procedures and fill in the blank prompts and data tables make it easy to use successfully at home in classrooms or with independent learners in any setting Note Lab manual answers and teaching tips are included in the Grade 8 Physical Science Teacher Manual which can be purchased separately and includes answers to the full Grade 8 Physical Science course

Report International Clearinghouse on Science and Mathematics Curricular Developments,1966 Readers' Guide to Periodical Literature ,1916 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books **Resources in Education** ,1996 **Journal of Health, Physical Education, Recreation** ,1962

Science & Technology Study Guide a With Directed Reading Worksheets Physical Science Grade 8 Holt Rinehart and Winston,Hrw,2007-01-01 Social Sciences and Humanities Index ,1916 **The School Executive** ,1926 Minnesota Journal of Education ,1927 **American Educational Digest** ,1926 The Publishers Weekly ,1926 **List of Outstanding Teaching and Learning Materials** Association for Supervision and Curriculum Development,1967

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **8th Grade Physical Science Study Guide**

In a world inundated with monitors and the cacophony of immediate conversation, the profound energy and mental resonance of verbal beauty usually diminish into obscurity, eclipsed by the regular barrage of sound and distractions. Yet, set within the musical pages of **8th Grade Physical Science Study Guide**, a fascinating perform of fictional brilliance that pulses with raw thoughts, lies an memorable trip waiting to be embarked upon. Penned by a virtuoso wordsmith, that interesting opus manuals viewers on an emotional odyssey, delicately exposing the latent potential and profound affect stuck within the delicate web of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is central subjects, dissect its fascinating writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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