

**CONCEPTUAL Physics** PRACTICE PAGE**Chapter 4 Newton's Second Law of Motion**  
**Mass and Weight**

Learning physics is learning the connections among concepts in nature, and also learning to distinguish between closely-related concepts. Velocity and acceleration, previously treated, are often confused. Similarly in this chapter, we find that mass and weight are often confused. They aren't the same! Please review the distinction between mass and weight in your textbook. To reinforce your understanding of this distinction, circle the correct answers below.



Comparing the concepts of mass and weight, one is basic—fundamental—depending only on the internal makeup of an object and the number and kind of atoms that compose it. The concept that is fundamental is [mass] [weight].

The concept that additionally depends on location in a gravitational field is [mass] [weight].

[Mass] [Weight] is a measure of the amount of matter in an object and only depends on the number and kind of atoms that compose it.

It can correctly be said that [mass] [weight] is a measure of "laziness" of an object.

[Mass] [Weight] is related to the gravitational force acting on the object.

[Mass] [Weight] depends on an object's location, whereas [mass] [weight] does not.

In other words, a stone would have the same [mass] [weight] whether it is on the surface of Earth or on the surface of the Moon. However, its [mass] [weight] depends on its location.

On the Moon's surface, where gravity is only about  $1/6^{\text{th}}$  Earth gravity [mass] [weight]  
[both the mass and the weight] of the stone would be the same as on Earth.

While mass and weight are not the same, they are [directly proportional] [inversely proportional] to each other. In the same location, twice the mass has [twice] [half] the weight.

The Standard International (SI) unit of mass is the [kilogram] [newton], and the SI unit of force is the [kilogram] [newton].

In the United States, it is common to measure the mass of something by measuring its gravitational pull to Earth, its weight. The common unit of weight in the U.S. is the [pound] [kilogram] [newton].



When I step on a weighing scale, two forces act on it; a downward pull of gravity, and an upward support force. These equal and opposite forces effectively compress a spring inside the scale that is calibrated to show weight. When in equilibrium, my weight =  $mg$ .

# Conceptual Physical Science Exploration Review Answers

**Arthur James Wells**



## Conceptual Physical Science Exploration Review Answers:

**Conceptual Physical Science** Paul G. Hewitt, John Suchocki, Leslie A. Hewitt, 2004 Conceptual Physical Science Third Edition takes learning physical science to a new level by combining Hewitt's leading conceptual approach and friendly writing style in a new edition that provides stronger integration of the sciences more quantitative coverage and a wealth of new media resources to help professors in class and students out of class The book's consistent high quality coverage includes five new chapters on chemistry astronomy and earth science for an even more balanced approach to physical science New Looking Forward and Looking Back boxes connect themes and concepts throughout the book helping students see the big picture More computational coverage eg Figuring Physical Science in chapter calculation allows students to practice the quantitative skills they need to master the concepts of physical science and be able to apply their knowledge Looking Forward and Looking Back boxes in every chapter connect themes and concepts throughout the book helping students see the big picture of physical science Powerful media package includes a comprehensive suite of award winning interactive online tutorials that offer students 24/7 help A media gri

**Practice Book: Conceptual Physical Science** Paul G. Hewitt, John Suchocki, Leslie A. Hewitt, 2003-07 This skill building workbook helps students build their confidence and understanding of concepts in the textbook Answers to all questions are provided at the back of the workbook *Curriculum Review*, 1986

**Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1968 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Physics** Richard Wolfson, 1987 *Subject Guide to Books in Print*, 1991 *Boston Studies in the Philosophy of Science*, 2007 **The British National Bibliography** Arthur James Wells, 2009 *Resources in Education*, 1971-07 **Collider Physics** J. Brau, Robert S. Panvini, 1988 *The Spatialities of Radio Astronomy* Guy Trangoš, 2023-04-28 The Spatialities of Radio Astronomy examines the multidisciplinary overlap between the spatial disciplines and the studies of science and technology through a comparative study of four of the world's most important radio telescopes Employing detailed analysis historical research interviews personal observations and various conceptual manoeuvres Guy Trango reveals the depth of spatial process active at these scientific sites and the territories they traverse Through the conceptual frameworks of territory hyper concentration and contingency Trango interprets the telescope as exploded across space and time present in multiple connected sites simultaneously and active in the production of space He develops a historiographic and contemporary analysis of the Atacama Large Millimeter submillimeter Array ALMA Chile the Five hundred meter Aperture Spherical radio Telescope FAST China the Arecibo Observatory Puerto Rico and the MeerKAT SKA South Africa These case studies are global exemplars of the different spatial transformations that occur through science Their relationships to surrounding communities and landscapes reveal deeper constitutional processes embodied in each institutional and spatial form This book spans the modern history of architecture and science the studies of science technology and society and urban theory It is of specific

interest to architects and designers expanding their analysis of spatial production scholars in the study of geography  
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built and operate today      **American Journal of Physics** ,1995      **Principles of Physics** Raymond A. Serway,1997-08  
    Evaluation Package for Cutnell and Johnson Physics 8E Cutnell,2008-10-28      THE ACADEMY. A WEEKLY REVIEW OF  
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