

Conceptual Forces Worksheet

Name: _____ **KEY** _____

Mod: _____

Date: _____

Directions: Answer the following problems below using complete sentences to earn full credit.

1. Compare and contrast contact vs. field forces. Give examples of each.

A field force and contact force both apply forces to objects. A contact force requires two objects to be in contact with one another to exist. A field force interacts with objects without contact through some force field. Examples of contact forces would be push and pull. Examples of field forces are gravity and electromagnetic.

2. How do we calculate the weight of an object?

$$w = mg$$
$$\text{weight (N)} = \text{Mass (kg)} \times \text{Acceleration Due to Gravity (9.8 } \frac{\text{m}}{\text{s}^2})$$

3. What is the weight of a 40kg object?

$$w = mg$$
$$w = (40 \text{ kg}) (9.8 \frac{\text{m}}{\text{s}^2})$$
$$w = 392 \text{ N}$$

4. What would be the mass of an object that weighted 200N?

$$w = mg$$
$$m = \frac{w}{g}$$
$$m = \frac{200 \text{ N}}{9.8 \frac{\text{m}}{\text{s}^2}} = 20.41 \text{ kg}$$

5. What changes depending on location in the universe, weight or mass? Explain...

Mass is the measure of matter in an object. Weight is the force of gravity pulling on an object. Mass stays constant regardless of location. Weight depends on the gravitational field produced by near by large masses.

6. State Newton's First Law of Motion.

Also known as the law of inertia. An object at rest remains at rest. An object in motion remains at a constant velocity, unless acted on by an unbalanced net force.

7. State Inertia.

The tendency for an object to resist change in motion. Directly proportional to mass.

8. Why is the normal force called a support force?

It is the force created by an object supporting another object.

Review Questions Conceptual Physics

Ta-Pei Cheng



Review Questions Conceptual Physics:

Conceptual Physics, 1974 From Atoms to Galaxies Sadri Hassani, 2011-06-13 College students in the United States are becoming increasingly incapable of differentiating between proven facts delivered by scientific inquiry and the speculations of pseudoscience. In an effort to help stem this disturbing trend *From Atoms to Galaxies: A Conceptual Physics Approach to Scientific Awareness* teaches heightened scientific acuity as it educates students about the physical world and gives them answers to questions large and small. Written by Sadri Hassani, the author of several mathematical physics textbooks, this work covers the essentials of modern physics in a way that is as thorough as it is compelling and accessible. Some of you might want to know: How did Galileo come to think about the first law of motion? Did Newton actually discover gravity by way of an apple and an accident? Or maybe you have mulled over: Is it possible for Santa Claus to deliver all his toys? Is it possible to prove that Elvis does not visit Graceland every midnight? Or perhaps you've even wondered: If ancient Taoism really parallels modern physics? If psychoanalysis can actually be called a science? How it is that some philosophies of science may imply that a 650-year-old woman can give birth to a child? No Advanced Mathematics Required: A primary textbook for undergraduate students not majoring in physics. *From Atoms to Galaxies* examines physical laws and their consequences from a conceptual perspective that requires no advanced mathematics. It explains quantum physics, relativity, nuclear and particle physics, gauge theory, quantum field theory, quarks and leptons, and cosmology. Encouraging students to subscribe to proven causation rather than dramatic speculation, the book defines the often-obscured difference between science and technology, discussing how this confusion taints both common culture and academic rigor. Explores the various philosophies of science, demonstrating how errors in our understanding of scientific principles can adversely impact scientific awareness. Exposes how pseudoscience and New Age mysticism advance unproven conjectures as dangerous alternatives to proven science. Based on courses taught by the author for over 15 years, this textbook has been developed to raise the scientific awareness of the untrained reader who lacks a technical or mathematical background. To accomplish this, the book lays the foundation of the laws that govern our universe in a nontechnical way, emphasizing topics that excite the mind, namely those taken from modern physics and exposing the abuses made of them by the New Age gurus and other mystagogues. It outlines the methods developed by physicists for the scientific investigation of nature and contrasts them with those developed by the outsiders who claim to be the owners of scientific methodology. Each chapter includes essays which use the material developed in that chapter to debunk misconceptions, clarify the nature of science, and explore the history of physics as it relates to the development of ideas. Noting the damage incurred by confusing science and technology, the book strives to help the reader to emphatically demarcate the two while clearly demonstrating that science is the only element capable of advancing technology. AP Physics 2 with Online Tests Kenneth Rideout, Jonathan Wolf, 2020-07-07 Barron's brand new AP Physics 2 with Online Tests provides four practice tests and key review for the AP Physics 2 exam. The College Board has announced

that there are May 2021 test dates available are May 3 7 and May 10 14 2021 Content corresponds to the topics covered in a second year algebra based physics class AP Physics 2 helps students review electric magnetic and gravitational fields circuits and capacitance fluid dynamics thermodynamics optics and modern physics AP Physics 2 includes Two practice tests in the book with all questions answered and explained Two online practice tests with all questions answered and explained A diagnostic test in the book to help students target areas where they need more study Practice questions and review covering all test areas Tips and advice for dealing with the new problem types introduced on this test *AP Physics 1* Kenneth Rideout,Jonathan Wolf,2020-08-04 Barron s AP Physics 1 Study Guide With 2 Practice Tests Second Edition provides in depth review for the AP Physics 1 exam which corresponds to a first year algebra based college course Comprehensive subject review covers vectors kinematics forces and Newton s Laws of Motion energy gravitation impacts and linear momentum rotational motion oscillatory motion electricity and waves and sound The College Board has announced that there are May 2021 test dates available are May 3 7 and May 10 14 2021 This fully updated book offers in depth review for the exam and helps students apply the skills they learned in class It includes Two practice tests that reflect the AP Physics 1 exam in terms of format content tested and level of difficulty with all answers fully explained A short diagnostic test for assessing strengths and weaknesses Practice questions and review that cover all test areas Tips and advice for answering all question types Added information about the weighting of points by topic **AP Physics 1 Premium** Kenneth Rideout,Jonathan Wolf,2020-08-04 Always study with the most up to date prep Look for AP Physics 1 Premium 2023 4 Practice Tests Comprehensive Review Online Practice ISBN 9781506281117 on sale August 2 2022 **Conceptual Physics--a New Introduction to Your Environment** ,1981 *Modern Physics* Gary N. Felder,Kenny M. Felder,2022-09-15 An accessible and pedagogically rich Modern Physics textbook with step by step explanations and extensive resources to support active learning 33 945 12-08-2014,□□□□□□□□ .□ □□□□□□ □□□□□□□□ **ESSENTIALS OF PHYSICS** SANJAY MORESHWAR WAGH,DILIP ABASAHEB DESHPANDE,2012-11-19 Essentials of Physics is a comprehensive study of the fundamental concepts that form the basis of Physics A sequel to Volume one this book provides a detailed coverage of all the basic concepts of Physics like optics electromagnetism electric circuits and atomic spectra The topics are dealt with logically emphasizing the role of mathematics and statistics into them Each chapter is dealt with a separate phenomenon that is further supported by mathematical equations and their derivations and solved examples The figures and tables are added to give an analytical insight to the concepts explained The book is designed specifically for the introductory level college physics courses Besides it will be equally suitable for the students preparing for various competitive examinations Key Features Contains Numerical Problems and Multiple Choice Questions to check students comprehension on the subject Includes Appendices on data symbols and important results used in Physics and Mathematics **MCAT 528 Advanced Prep 2019-2020** Kaplan Test Prep,2018-10-02 Kaplan s MCAT 528 Advanced Prep 2019 2020 features thorough subject

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the National Research Council The present volume reviews the Phase I work of the WSIS and provides recommendations for improving Phase II

Life in the Universe, 5th Edition Jeffrey Bennett, Seth Shostak, Nicholas Schneider, Meredith MacGregor, 2022-05-31 The world's leading textbook on astrobiology ideal for an introductory one semester course and now fully revised and updated Are we alone in the cosmos How are scientists seeking signs of life beyond our home planet Could we colonize other planets moons or even other star systems This introductory textbook written by a team of four renowned science communicators educators and researchers tells the amazing story of how modern science is seeking the answers to these and other fascinating questions They are the questions that are at the heart of the highly interdisciplinary field of astrobiology the study of life in the universe Written in an accessible conversational style for anyone intrigued by the possibilities of life in the solar system and beyond Life in the Universe is an ideal place to start learning about the latest discoveries and unsolved mysteries in the field From the most recent missions to Saturn's moons and our neighboring planet Mars to revolutionary discoveries of thousands of exoplanets from the puzzle of life's beginning on Earth to the latest efforts in the search for intelligent life elsewhere this book captures the imagination and enriches the reader's understanding of how astronomers planetary scientists biologists and other scientists make progress at the cutting edge of this dynamic field Enriched with a wealth of engaging features this textbook brings any citizen of the cosmos up to speed with the scientific quest to discover whether we are alone or part of a universe full of life An acclaimed text designed to inspire students of all backgrounds to explore foundational questions about life in the cosmos Completely revised and updated to include the latest developments in the field including recent exploratory space missions to Mars frontier exoplanet science research on the origin of life on Earth and more Enriched with helpful learning aids including in chapter Think about It questions optional Do the Math and Special Topic boxes Movie Madness boxes end of chapter exercises and problems quick quizzes and much more Supported by instructor's resources including an illustration package and test bank available upon request *Holt Physics* Raymond A. Serway, 2002

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