

## Unit 7: Worksheet 2

1. Calculate the gravitational field strength on the moon, which has a radius of  $1.74 \times 10^6$  m, and a mass of  $7.36 \times 10^{22}$  kg.
2. How much would a 1500 kg satellite weigh at the surface of the moon? Do it two ways.

Assume that the diagram below represents the orbit of the satellite around the moon at an altitude of 100 km. (make sure to use SI Units!)



3. Construct a force diagram of the satellite in orbit.
4. Demonstrate the direction of the acceleration, if any, by means of a motion map.
5. What is the radius of the orbit of the satellite? (radius of moon + altitude of orbit)

# Modeling Workshop Project Physics Unit

**Yicheng Fang**



## **Modeling Workshop Project Physics Unit:**

**The First Sourcebook on Nordic Research in Mathematics Education** Bharath Sriraman, Simon Goodchild, Christer Bergsten, Gudbjorg Palsdottir, Lenni Haapasalo, Bettina Dahl Søndergaard, 2010-09-01 The First Sourcebook on Nordic Research in Mathematics Education Norway Sweden Iceland Denmark and contributions from Finland provides the first comprehensive and unified treatment of historical and contemporary research trends in mathematics education in the Nordic world The book is organized in sections coordinated by active researchers in mathematics education in Norway Sweden Iceland Denmark and Finland The purpose of this sourcebook is to synthesize and survey the established body of research in these countries with findings that have influenced ongoing research agendas informed practice framed curricula and policy The sections for each country also include historical articles in addition to exemplary examples of recently conducted research oriented towards the future The book will serve as a standard reference for mathematics education researchers policy makers practitioners and students both in and outside the Nordic countries

### **Course and Curriculum**

**Improvement Projects: Mathematics, Science, Social Sciences** National Science Foundation (U.S.), 1970 **The Changing Role of Physics Depts. in Modern Universities** Redish, John Ridgen, 1998-07-09 Annotation The proceedings of the August 1996 conference arranged in two volumes focus on the physics baccalaureate as passport to the workplace physics courses in service of students in other sciences and engineering and the physics department's responsibility in pre and in service education of teachers Issues include the changing goals of physics courses the impact of physics education research on instruction and applications of modern technologies Volume 1 contains the presentations and poster papers volume 2 contains description of 18 sample classes No index Annotation c by Book News Inc Portland Or

### **Project Impact**

**- Disseminating Innovation in Undergraduate Education** Ann McNeal, 1998-02 Contains abstracts of innovative projects designed to improve undergraduate education in science mathematics engineering and technology Descriptions are organized by discipline and include projects in astronomy biology chemistry computer science engineering geological sciences mathematics physics and social sciences as well as a selection of interdisciplinary projects Each abstract includes a description of the project published and other instructional materials additional products of the project and information on the principal investigator and participating institutions

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**Stanford Bulletin**, 2006

NBS Special Publication, 1968

*Rio Del Oro Specific Plan Project,*

*Sacramento County*, 2010

**Resources in Education**, 1990

Exploring Signature Pedagogies Regan A. R.

Gurung, Nancy L. Chick, Aeron Haynie, 2023-07-03 From the Foreword These authors have clearly shown the value in looking for the signature pedagogies of their disciplines Nothing uncovers hidden assumptions about desired knowledge skills and

dispositions better than a careful examination of our most cherished practices The authors inspire specialists in other disciplines to do the same Furthermore they invite other colleagues to explore whether relatively new interdisciplinary fields such as Women s Studies and Global Studies have or should have a signature pedagogy consistent with their understanding of what it means to apprentice in these areas Anthony A Ciccone Senior Scholar and Director Carnegie Academy for the Scholarship of Teaching and Learning How do individual disciplines foster deep learning and get students to think like disciplinary experts With contributions from the sciences humanities and the arts this book critically explores how to best foster student learning within and across the disciplines This book represents a major advance in the Scholarship of Teaching and Learning SoTL by moving beyond individual case studies best practices and the work of individual scholars to focus on the unique content and characteristic pedagogies of major disciplines Each chapter begins by summarizing the SoTL literature on the pedagogies of a specific discipline and by examining and analyzing its traditional practices paying particular attention to how faculty evaluate success Each concludes by the articulating for its discipline the elements of a signature pedagogy that will improve teaching and learning and by offering an agenda for future research Each chapter explores what the pedagogical literature of the discipline suggests are the optimal ways to teach material in that field and to verify the resulting learning Each author is concerned about how to engage students in the ways of knowing the habits of mind and the values used by experts in his or her field Readers will not only benefit from the chapters most relevant to their disciplines As faculty members consider how their courses fit into the broader curriculum and relate to the other disciplines and design learning activities and goals not only within the discipline but also within the broader objectives of liberal education they will appreciate the cross disciplinary understandings this book affords

*Announcer* ,1995 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.),1986 **Research in Education** ,1973-12 Energy Research Abstracts ,1993 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes Publications of the National Bureau of Standards ... Catalog United States. National Bureau of Standards,1986 **UCSF Graduate Division Bulletin** University of California, San Francisco. Graduate Division,1986 **Energy and Technology Review** ,1991 Astronomical Education with the Internet M. Okyudo,T. Ebisuzaki,M. Nakayama,1998 *Report of a Workshop on the Pedagogical Aspects of Computational Thinking* National Research Council,Division on Engineering and Physical Sciences,Computer Science and Telecommunications Board,Committee for the Workshops on Computational Thinking,2011-09-05 In 2008 the Computer and Information Science and Engineering Directorate of the National Science

Foundation asked the National Research Council NRC to conduct two workshops to explore the nature of computational thinking and its cognitive and educational implications The first workshop focused on the scope and nature of computational thinking and on articulating what computational thinking for everyone might mean A report of that workshop was released in January 2010 Drawing in part on the proceedings of that workshop Report of a Workshop of Pedagogical Aspects of Computational Thinking summarizes the second workshop which was held February 4 5 2010 in Washington D C and focuses on pedagogical considerations for computational thinking This workshop was structured to gather pedagogical inputs and insights from educators who have addressed computational thinking in their work with K 12 teachers and students It illuminates different approaches to computational thinking and explores lessons learned and best practices Individuals with a broad range of perspectives contributed to this report Since the workshop was not intended to result in a consensus regarding the scope and nature of computational thinking Report of a Workshop of Pedagogical Aspects of Computational Thinking does not contain findings or recommendations      *Compendium of Training Facilities for Meteorology and Operational Hydrology* ,1996

## Unveiling the Magic of Words: A Report on "**Modeling Workshop Project Physics Unit**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Modeling Workshop Project Physics Unit**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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