

Unit 7: Worksheet 2

1. Calculate the gravitational field strength on the moon, which has a radius of 1.74×10^6 m, and a mass of 7.36×10^{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 2006 Worksheets

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Modeling Workshop Project 2006 Worksheets:

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society, 2007

Investigating Complex Phenomena: Bridging between Systems Thinking and Modeling in Science Education

Tom Bielik, Moritz Krell, Laura Zangori, Orit Ben Zvi Assaraf, 2023-11-15 Understanding the complexity of the natural world and making sense of phenomena is one of the main goals of science and science education When investigating complex phenomena such as climate change or pandemic outbreaks students are expected to engage in systems thinking by considering the boundaries of the investigated system identifying the relevant components and their interactions and exploring system attributes such as hierarchical organization dynamicity feedback loops and emergence Scientific models are tools that support students reasoning and understanding of complex systems and students are expected to develop their modeling competence and to engage in the modeling process by constructing testing revising and using models to explain and predict phenomena Computational modeling tools for example provide students with the opportunity to explore big data run simulations and investigate complex systems Therefore both systems thinking and modeling approaches are important for science education when investigating complex phenomena

Model-Driven Engineering Languages and Systems Ana Moreira, Bernhard Schätz, Jeff Gray, Antonio Vallecillo, Peter Clarke, 2013-09-20 This book constitutes the refereed proceedings of the 16th International Conference on Model Driven Engineering Languages and Systems MODELS 2013 held in Miami FL USA in September October 2013 The 47 full papers presented in this volume were carefully reviewed and selected from a total of 180 submissions They are organized in topical sections named tool support dependability comprehensibility testing evolution verification product lines semantics domain specific modeling languages models RT design and architecture model transformation model analysis and system synthesis

Promoting Active Learning through the Flipped Classroom Model Keengwe, Jared, 2014-01-31 This book focuses on an in depth assessment on strategies and instructional design practices appropriate for the flipped classroom model highlighting the benefits shortcoming perceptions and academic results of the flipped classroom model Provided by publisher

Skills Based Health Education - Book Only Mary Connolly, 2011-01-06 Skills Based Health Education provides pre service and practicing teachers with the pedagogical foundation and tools to develop a comprehensive PreK 12 health education program using the National Health Education Standards Rather than solely focusing on teaching content an approach which can prove ineffective in developing healthy behaviors readers learn to teach the content and skills their students need to be healthy and prepared for the 21st century The book addresses each one of the national standards with specific directions regarding how to apply the standard and performance indicators to plan and implement performance tasks that target instruction to a student need Readers are shown how to establish student need select content and skill performance indicators to meet the need and plan and implement assessment and instruction PowerPoint Presentations and a TestBank are available as free Instructor Downloads Companion website includes lessons

units and other support materials to enhance teaching and learning *SR 28 (Sunset Highway), Eastside Corridor Project*, 2006 Computer Safety, Reliability, and Security Barbara Gallina, Amund Skavhaug, Friedemann Bitsch, 2018-09-03 This book constitutes the refereed proceedings of the 37th International Conference on Computer Safety Reliability and Security SAFECOMP 2018 held in Västerås Sweden in September 2018 The 19 revised full papers and 1 short paper presented together with three abstracts of keynotes were carefully reviewed and selected from 63 submissions The papers are organized in topical sections on Automotive Safety Standards and Cross domain Reuse Potential Autonomous Driving and Safety Analysis Verification Multi concern Assurance Fault Tolerance and Safety and Security Risk *Exploring the Evidence* Wendy G. Troxel, Marc Cutright, 2008 Forest Appreciation Week Writing Contest, 2007 **The Software Encyclopedia**, 1986 *The Science Teacher*, 2009 *Linguistics and Language Behavior Abstracts*, 2009 **The British National Bibliography** Arthur James Wells, 2006 **Instructor Edition** Shelly, Cashman, Vermaat, 2006-02 Provides a current and thorough introduction to computers by integrating usage of the World Wide Web with the printed text

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