

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.
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5. What is the radius of the orbit of the satellite? (radius of moon + altitude of orbit)

Modeling Workshop Project 20physics Unit 7

F Rizvi



Modeling Workshop Project 20physics Unit 7:

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Table of Contents Modeling Workshop Project 20physics Unit 7

1. Understanding the eBook Modeling Workshop Project 20physics Unit 7
 - The Rise of Digital Reading Modeling Workshop Project 20physics Unit 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Workshop Project 20physics Unit 7
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modeling Workshop Project 20physics Unit 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Workshop Project 20physics Unit 7
 - Personalized Recommendations
 - Modeling Workshop Project 20physics Unit 7 User Reviews and Ratings
 - Modeling Workshop Project 20physics Unit 7 and Bestseller Lists

5. Accessing Modeling Workshop Project 20physics Unit 7 Free and Paid eBooks
 - Modeling Workshop Project 20physics Unit 7 Public Domain eBooks
 - Modeling Workshop Project 20physics Unit 7 eBook Subscription Services
 - Modeling Workshop Project 20physics Unit 7 Budget-Friendly Options
6. Navigating Modeling Workshop Project 20physics Unit 7 eBook Formats
 - ePub, PDF, MOBI, and More
 - Modeling Workshop Project 20physics Unit 7 Compatibility with Devices
 - Modeling Workshop Project 20physics Unit 7 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modeling Workshop Project 20physics Unit 7
 - Highlighting and Note-Taking Modeling Workshop Project 20physics Unit 7
 - Interactive Elements Modeling Workshop Project 20physics Unit 7
8. Staying Engaged with Modeling Workshop Project 20physics Unit 7
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modeling Workshop Project 20physics Unit 7
9. Balancing eBooks and Physical Books Modeling Workshop Project 20physics Unit 7
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modeling Workshop Project 20physics Unit 7
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modeling Workshop Project 20physics Unit 7
 - Setting Reading Goals Modeling Workshop Project 20physics Unit 7
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modeling Workshop Project 20physics Unit 7
 - Fact-Checking eBook Content of Modeling Workshop Project 20physics Unit 7
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

-
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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