

# Uniform Circular Motion: Worksheet 1

Assumes that the car shown below is going at a constant speed.



Fig. 1

1. Construct a qualitative motion map of the car in Figure 1.



2. In what direction is the car experiencing acceleration? Explain how you know.

towards the center of the circle  
we know it is accelerating bc it is changing direction

3. Construct a force diagram for the car when it's at the top of the hill.



$F_g$  is larger bc that is in

the direction of the acceleration at the top of

4. Suppose the speed of the car is 11.1 m/s ( $\approx 25$  mph) and the radius of curvature ( $r$ ) is 25 m; determine the magnitude of the centripetal acceleration of the car.

$$a_c = \frac{v^2}{r} = \frac{(11.1 \text{ m/s})^2}{25} = 4.93 \text{ m/s}^2$$

5. If the mass of the car is 1200 kg, what  $F_{\text{net}}$  would be required to cause this centripetal acceleration?

$$F_{\text{net}} = ma_c = (1200 \text{ kg})(4.93 \text{ m/s}^2) = 5916 \text{ N}$$

6. Now, determine values for the forces in your force diagram of number 3.

$$\text{In-car} = ma_c \Rightarrow F_g - F_N = ma_c \Rightarrow (1200 \text{ kg})(4.93 \text{ m/s}^2) - F_N = (1200 \text{ kg})(4.93 \text{ m/s}^2)$$

$$F_g = (1200 \text{ kg})(9.8 \text{ m/s}^2)$$

$$11760 \text{ N} - F_N = 5916 \text{ N}$$

$$\Rightarrow \begin{cases} F_N = 5844 \text{ N} \\ F_g = 11760 \text{ N} \end{cases}$$

7. At what speed would the centripetal force equal the force of gravity?

$$\text{Set } F_{\text{net}} = F_g \Rightarrow \frac{mv^2}{r} = mg \Rightarrow \frac{v^2}{25} = 9.8 \Rightarrow v^2 = 245 \text{ m/s}^2$$

$$\Rightarrow v = 15.65 \text{ m/s}$$

8. Suppose the car were going faster than the speed that you calculated for question 7; describe what would happen to the car.

It would come off the hill, bc when  $mg = \frac{mv^2}{r}$  it means there is no more normal force

# Modeling Workshop Project 2006 Unit 8 Answers

**Jin-Ying Zhang**



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## **Table of Contents Modeling Workshop Project 2006 Unit 8 Answers**

1. Understanding the eBook Modeling Workshop Project 2006 Unit 8 Answers
  - The Rise of Digital Reading Modeling Workshop Project 2006 Unit 8 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Workshop Project 2006 Unit 8 Answers
  - 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 2006 Unit 8 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Workshop Project 2006 Unit 8 Answers
  - Personalized Recommendations
  - Modeling Workshop Project 2006 Unit 8 Answers User Reviews and Ratings
  - Modeling Workshop Project 2006 Unit 8 Answers and Bestseller Lists
5. Accessing Modeling Workshop Project 2006 Unit 8 Answers Free and Paid eBooks
  - Modeling Workshop Project 2006 Unit 8 Answers Public Domain eBooks
  - Modeling Workshop Project 2006 Unit 8 Answers eBook Subscription Services
  - Modeling Workshop Project 2006 Unit 8 Answers Budget-Friendly Options
6. Navigating Modeling Workshop Project 2006 Unit 8 Answers eBook Formats

- ePub, PDF, MOBI, and More
- Modeling Workshop Project 2006 Unit 8 Answers Compatibility with Devices
- Modeling Workshop Project 2006 Unit 8 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Modeling Workshop Project 2006 Unit 8 Answers
  - Highlighting and Note-Taking Modeling Workshop Project 2006 Unit 8 Answers
  - Interactive Elements Modeling Workshop Project 2006 Unit 8 Answers
- 8. Staying Engaged with Modeling Workshop Project 2006 Unit 8 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Modeling Workshop Project 2006 Unit 8 Answers
- 9. Balancing eBooks and Physical Books Modeling Workshop Project 2006 Unit 8 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Modeling Workshop Project 2006 Unit 8 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Modeling Workshop Project 2006 Unit 8 Answers
  - Setting Reading Goals Modeling Workshop Project 2006 Unit 8 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modeling Workshop Project 2006 Unit 8 Answers
  - Fact-Checking eBook Content of Modeling Workshop Project 2006 Unit 8 Answers
  - 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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