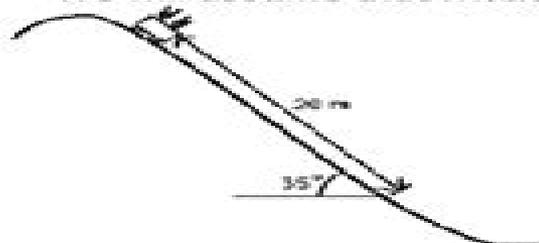


Net Force Particle Model Worksheet 4: Newton's 2nd Law and Component Forces

1. A rollercoaster car, 300 kg with passengers, accelerates down a 65° hill. We will assume that friction is small enough that it can be ignored.



- a. Draw a force diagram for the system of car and riders.

- b. Determine the value of the component of the gravitational force parallel to the hill.

$$F_{g,parallel} = (\sin \theta) F_g = (\sin 65^\circ \times 300 \text{ kg} \times 10 \frac{\text{m}}{\text{s}^2}) = 2720 \text{ N}$$

- c. What is the acceleration of the rollercoaster down the hill?

$$a = \frac{F_{net}}{m} = \frac{F_{g,parallel}}{m} = \frac{2720 \text{ N}}{300 \text{ kg}} = 9.1 \frac{\text{m}}{\text{s}^2}$$

- d. If they are traveling 4 m/s at the time shown in the picture, how fast will they be traveling at the end of the straight stretch, 20 m later?

$$\begin{aligned} v_f^2 - v_i^2 &= 2a\Delta x \Rightarrow v_f^2 = 2a\Delta x + v_i^2 \\ v_f^2 &= 2(9.1 \frac{\text{m}}{\text{s}^2} \times 20 \text{ m}) + (4 \frac{\text{m}}{\text{s}})^2 \Rightarrow v_f^2 = 364 \frac{\text{m}^2}{\text{s}^2} + 16 \frac{\text{m}^2}{\text{s}^2} \\ v_f^2 &= 380 \frac{\text{m}^2}{\text{s}^2} \Rightarrow v = \pm \sqrt{380 \frac{\text{m}^2}{\text{s}^2}} \approx 20 \frac{\text{m}}{\text{s}} \end{aligned}$$

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Mike Jess



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Table of Contents Net Force Particle Model Worksheet 4 Answer Key

1. Understanding the eBook Net Force Particle Model Worksheet 4 Answer Key
 - The Rise of Digital Reading Net Force Particle Model Worksheet 4 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Net Force Particle Model Worksheet 4 Answer Key
 - 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 Net Force Particle Model Worksheet 4 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Net Force Particle Model Worksheet 4 Answer Key
 - Personalized Recommendations
 - Net Force Particle Model Worksheet 4 Answer Key User Reviews and Ratings
 - Net Force Particle Model Worksheet 4 Answer Key and Bestseller Lists
5. Accessing Net Force Particle Model Worksheet 4 Answer Key Free and Paid eBooks

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 - Net Force Particle Model Worksheet 4 Answer Key eBook Subscription Services
 - Net Force Particle Model Worksheet 4 Answer Key Budget-Friendly Options
6. Navigating Net Force Particle Model Worksheet 4 Answer Key eBook Formats
- ePub, PDF, MOBI, and More
 - Net Force Particle Model Worksheet 4 Answer Key Compatibility with Devices
 - Net Force Particle Model Worksheet 4 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Net Force Particle Model Worksheet 4 Answer Key
 - Highlighting and Note-Taking Net Force Particle Model Worksheet 4 Answer Key
 - Interactive Elements Net Force Particle Model Worksheet 4 Answer Key
8. Staying Engaged with Net Force Particle Model Worksheet 4 Answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Net Force Particle Model Worksheet 4 Answer Key
9. Balancing eBooks and Physical Books Net Force Particle Model Worksheet 4 Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Net Force Particle Model Worksheet 4 Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Net Force Particle Model Worksheet 4 Answer Key
- Setting Reading Goals Net Force Particle Model Worksheet 4 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Net Force Particle Model Worksheet 4 Answer Key
- Fact-Checking eBook Content of Net Force Particle Model Worksheet 4 Answer Key
 - 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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