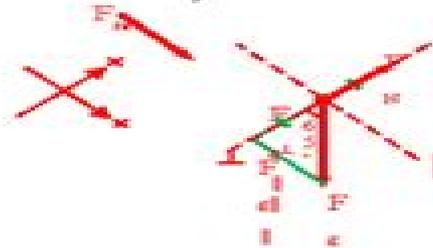
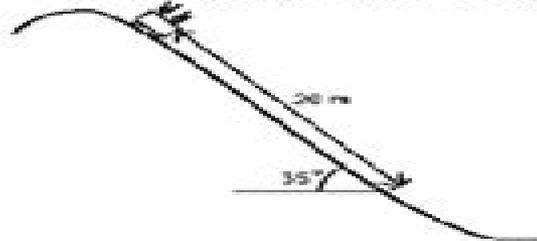


Net Force Particle Model Worksheet 4: Newton's 2nd Law and Component Forces

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.

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

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

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

- 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?

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

Net Force Particle Model Worksheet 4 Answer Key

David Stetser



Net Force Particle Model Worksheet 4 Answer Key:
Spreadsheet Modeling for Physics David Stetser, 1994

Net Force Particle Model Worksheet 4 Answer Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Net Force Particle Model Worksheet 4 Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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