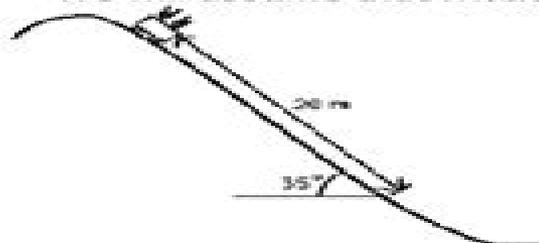


## Net Force Particle Model Worksheet 4: Newton's 2nd Law and Component Forces

1. A rollercoaster car, 300 kg with passengers, accelerates down a  $65^\circ$  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.

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

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

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

- 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?

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

# Net Force Particle Model Worksheet 4 Answer Key

**O García**



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

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