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## Student Exploration: Feed the Monkey (Projectile Motion)

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** acceleration, free fall, trajectory, vector, velocity

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

Eccentric billionaire Veda Hussert has invented a "banana cannon" to help feed the monkeys on her personal wildlife preserve. To feed a monkey high in the trees, simply aim the cannon at the monkey and fire a banana! Unfortunately, the noise of the cannon frightens the monkeys, and they drop out of the tree when they hear the sound.

1. To hit a falling monkey with a banana, where should Veda aim? (  Highlight your choice.)

A. Above the monkey

B. Below the monkey

C. Directly at the monkey

2. Explain your choice:

Because it takes the banana some time to reach the monkey, it should aim below the monkey because by the time it reaches the y value (as if it were a graph), the monkey has already reached the bottom.

### Gizmo Warm-up

The *Feed the Monkey* Gizmo shows a banana cannon and a monkey. When the cannon fires, the startled monkey drops from the branch.

1. Click **Play** (  ) to fire the cannon.

What happens?

The banana is thrown directly at the monkey, but misses because it is too high, preventing the monkey from catching it.



2. You can use the sliders to change the banana **velocity** ( $v_{\text{initial}}$ ) and cannon angle ( $\theta$ ). (You can also drag the cannon barrel.) Make adjustments until the monkey catches the banana.

What were the velocity and angle that you used?

31 degrees and a speed of 20.0 m/s

3. Now try increasing and decreasing the velocity. Assuming the banana is moving fast enough to reach the tree, does the monkey still catch the banana? Describe your findings.

# Monkey Lab Gizmo Answer Key

**H Kauffman**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents Monkey Lab Gizmo Answer Key**

1. Understanding the eBook Monkey Lab Gizmo Answer Key
  - The Rise of Digital Reading Monkey Lab Gizmo Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Monkey Lab Gizmo 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 Monkey Lab Gizmo Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Monkey Lab Gizmo Answer Key
  - Personalized Recommendations
  - Monkey Lab Gizmo Answer Key User Reviews and Ratings
  - Monkey Lab Gizmo Answer Key and Bestseller Lists
5. Accessing Monkey Lab Gizmo Answer Key Free and Paid eBooks
  - Monkey Lab Gizmo Answer Key Public Domain eBooks
  - Monkey Lab Gizmo Answer Key eBook Subscription Services
  - Monkey Lab Gizmo Answer Key Budget-Friendly Options

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