

Name: _____

Date: _____

Student Exploration: Golf Range

Vocabulary: acceleration, air resistance, gravity, hang time, launch angle, projectile motion, trajectory, vector, velocity

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

1. You are in a contest with your friends to see who can drive a golf ball the farthest. Should you hit a "line drive" (low to the ground) or a shot with a very high angle? Explain.

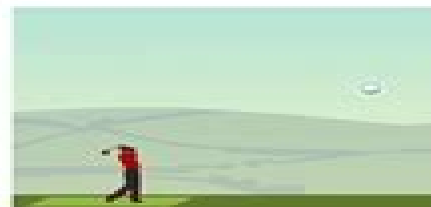
You should hit a line drive to get the highest horizontal velocity, which will cause the ball to go farther before the force of gravity brings it back to the ground.

2. Golf drives travel much farther than Major League home runs. Why might this be?

Major League home runs require the baseball to have more vertical velocity than the golf drives require on the golf balls.

Gizmo Warm-up

Have you ever hit a hole-in-one? You will have a chance to do that in the *Golf Range Gizmo™*, where you will see how a variety of factors affect the path of a golf ball. The movement of objects such as a ball through space is called **projectile motion**.



1. Press **Play** (▶). Did the ball go too far, the right distance, or not far enough? **Not far enough**

2. Click **Reset** (↺). Move the v_{initial} and θ sliders to adjust the **velocity** and **launch angle** until you get a hole-in-one. (With the Gizmo sound on (🔊) you will hear "Hole in one!")

What were the velocity and launch angle values? **Velocity = 65m/s and the Launch Angle = 65 degrees.**

3. Can you get holes-in-one using other combinations of v_{initial} and θ ? If so, give an example.

$v_{\text{initial}} = 68\text{m/s}$ and $\theta = 30$ $v_{\text{initial}} = 82\text{m/s}$ and $\theta = 18$ $v_{\text{initial}} = 100\text{m/s}$ and $\theta = 11.5$

Gizmo Answers Golf Range

VM Jensen

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the VM Jensen text bar.

Gizmo Answers Golf Range:

Decoding **Gizmo Answers Golf Range**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gizmo Answers Golf Range**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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