

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.

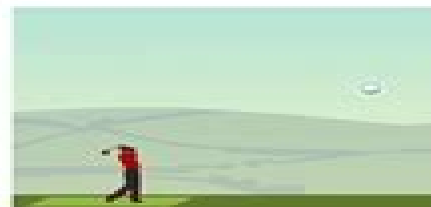
You should hit a line drive to get the highest horizontal velocity, which will cause the ball to go farther before the force of gravity brings it back to the ground. _____

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 Golf Range Gizmo Answer Key

ML Morrison

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the ML Morrison text bar.

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Unveiling the Energy of Verbal Art: An Mental Sojourn through **Gizmo Golf Range Gizmo Answer Key**

In a global inundated with displays and the cacophony of immediate transmission, the profound power and psychological resonance of verbal beauty frequently diminish in to obscurity, eclipsed by the constant barrage of sound and distractions. However, nestled within the lyrical pages of **Gizmo Golf Range Gizmo Answer Key**, a interesting perform of literary beauty that pulses with fresh feelings, lies an unique trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that mesmerizing opus books visitors on an emotional odyssey, lightly exposing the latent potential and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is key subjects, dissect its captivating writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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