

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.

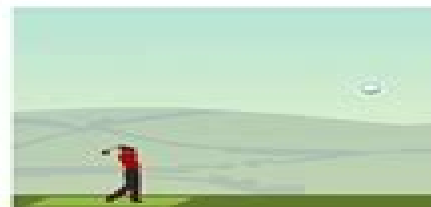
You should hit a line drive to get the highest horizontal velocity, which will cause the ball to go farther before the force of gravity brings it back to the ground. \_\_\_\_\_

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  $v_{\text{initial}}$  and  $\theta$  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  $v_{\text{initial}}$  and  $\theta$ ? 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  $\theta = 11.5$**

# Golf Range Gizmo Answer

**Ensheng Dong**

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

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