

<b>Activity B:</b>  <b>Physics of projectile motion</b>	<b>Get the Gizmo ready:</b> <ul style="list-style-type: none"> <li>• Click <b>Clear paths</b> and select <b>Atmosphere: None</b>.</li> <li>• Turn off <b>Show grid</b> and <b>Show paths</b>.</li> <li>• You will need a scientific calculator for this activity.</li> </ul>	 <p>A diagram showing a green golf ball in flight against a light blue background. A green arrow points from the ball towards the upper right. From the tip of this arrow, two perpendicular component arrows emerge: a blue arrow pointing vertically upwards and a red arrow pointing horizontally to the right.</p>
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**Introduction:** Velocity is an example of a **vector** quantity because it describes the speed and direction of an object. The velocity of an object through space can be shown by two components: a horizontal component ( $v_x$ ) and a vertical component ( $v_y$ ).

**Question:** How does the velocity of an object change as it flies through space?

1. **Observe:** Click **Reset**. Turn on **Show velocity vector** and **Show velocity components**. Set  $v_{\text{initial}}$  to 50 m/s and set  $\theta$  to 45.0 degrees. Click **Play**. Focus on the blue and red arrows that represent the vertical and horizontal components of the golf ball's velocity.

- A. As the ball flies through the air, what do you notice about the blue (vertical) arrow?
- B. As the ball flies through the air, what do you notice about the red (horizontal) arrow?
- C. Try other velocities and launch angles. Do these results hold up?

It turns upside down.

It points towards the east.

Yes

2. **Calculate:** You can use trigonometry to find the initial horizontal and vertical components of the ball's velocity. Take out your calculator now. Click **Reset**, and turn off **Show velocity vector** and **Show velocity components**. Set  $v_{\text{initial}}$  to 50.0 m/s and  $\theta$  to 60.0 degrees.

- A. To calculate  $v_x$ , multiply  $v_{\text{initial}}$  by the cosine of the angle:  $v_x = v_{\text{initial}} \cdot \cos(\theta)$ :
- B. To calculate  $v_y$ , multiply  $v_{\text{initial}}$  by the sine of the angle:  $v_y = v_{\text{initial}} \cdot \sin(\theta)$ :
- C. Turn on **Show velocity components**. Were you correct?

25

43.3

Yes

3. **Analyze:** An object flying through the air is said to be in free fall. As you observed, the horizontal component of velocity ( $v_x$ ) does not change as the object moves, but the vertical component ( $v_y$ ) decreases over time. (Note: Air resistance is not included in this model.)

- A. What force causes  $v_y$  to change as the golf ball travels?
- B. Why doesn't  $v_x$  change as the object travels? (Hint: Are there any horizontal forces acting on the ball?)

Gravity

Due to the lack of air resistance

# Golf Range Physics Answer Key

**Karin Nielsen-Saines**



## **Golf Range Physics Answer Key:**

## Enjoying the Song of Appearance: An Psychological Symphony within **Golf Range Physics Answer Key**

In a global eaten by screens and the ceaseless chatter of quick interaction, the melodic splendor and mental symphony created by the written term often disappear into the backdrop, eclipsed by the persistent sound and interruptions that permeate our lives. Nevertheless, set within the pages of **Golf Range Physics Answer Key** an enchanting literary value overflowing with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that charming masterpiece conducts visitors on a psychological trip, well unraveling the concealed melodies and profound influence resonating within each carefully constructed phrase. Within the depths of this moving evaluation, we can investigate the book is key harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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