

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.

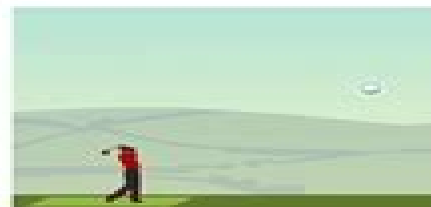
You should hit a line drive to get the highest horizontal velocity, which will cause the ball to go farther before the force of gravity brings it back to the ground. \_\_\_\_\_

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  $\theta = 11.5$**

# Gizmo Golf Range Gizmo Answer Key

**RM Cervero**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'RM Cervero' text.

## **Gizmo Golf Range Gizmo Answer Key:**

## **Gizmo Golf Range Gizmo Answer Key** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Gizmo Golf Range Gizmo Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://staging.conocer.cide.edu/files/detail/HomePages/Free%20To%20Be%20Thin%20Study%20Guide%20Discipline%20Number%20Two.pdf>

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### **Gizmo Golf Range Gizmo Answer Key Introduction**

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### **Gizmo Golf Range Gizmo Answer Key :**

ATF for manual trans in a Ford Escort advice? I know some of the newer Dextron shouldnt be used in a manual trans but is it the same way with the newer Mercon? Can I run a synthetic like Amsoil ATF? The car ... Manual Transmission on a 98 ZX2 Nov 11, 2006 — Ford Escort - Manual Transmission on a 98 ZX2 - Does anyone know if Ford recommends changing the fluid in it's ZX2 model if it's a manual ... Change FORD ESCORT Gearbox Oil and Transmission Oil ... Change FORD ESCORT Gearbox Oil and Transmission Oil yourself - manuals and video tutorials. Helpful guides and tips on replacing FORD ESCORT Gearbox Oil and ... What kind of trans fluid? Nov 24, 2006 — In my 2000 Ford Escort Owners Manual, it states Mercon Auto Tranny Fluid. I have not seen anything about Dextron Mercon III. Even the ... ESCORT ZX2 PROJECT FILLING MANUAL TRANSMISSION ... How to Add Fluid to Manual Transmission Jan 18, 2010 — I have a 1999 Escort 123,750 miles. I changed the driver side axle and oil seal and lost some transmission fluid. I have been told that to add/ ... 1995 ford escort manual transmission fluid Get a free detailed estimate for a transmission fluid change in your area from KBB. ... 8.Compare 1995 Ford Escort Manual Transmission Fluid brands.8l manual ... 1997 ford escort manual trans fluid level check Get a free detailed estimate for a.To change the transmission fluid on the manual 1998 Ford Escort ZX2, drain the fluid from the drain hole near the speed ... Ford Escort Manual Transmission Fluid Low prices on Manual Transmission Fluid for your Ford Escort at Advance Auto Parts. Find aftermarket and OEM parts online or at a local store near you. Ford escort manual transission for sale The manual transmission in the Ford Escort uses transmission fluid, it is ... Get a free detailed estimate for a transmission repair and replacement in your area ... USER MANUAL - SRV02 Rotary Servo Base Unit The Quanser SRV02 rotary servo plant, pictured in Figure 1.1, consists of a DC motor that is encased in a solid aluminum frame and equipped with a planetary ... SRV02 Position Control using QuaRC This laboratory guide contains pre-lab and in-lab exercises demonstrating how to design and implement a position controller on the Quanser SRV02 rotary ... Quanser SRV02 Workbook Jan 1, 2019 — Hakan Gurocak, Washington State University Vancouver, USA, for rewriting this manual to include embedded outcomes assessment. SRV02 Workbook - ... SRV02 User Manual SRV02 User Manual. 1. Presentation. 1.1. Description. The Quanser SRV02 rotary servo plant, pictured in Figure 1, consists of a DC motor that is encased in a. Quanser SRV02

Workbook Jan 1, 2019 — SRV02 Manual (Student).pdf. This laboratory guide contains pre-lab questions and lab experiments demonstrating how to model the Quanser. SRV02 ... SRV02 User Manual This module is designed to mount to a Quanser rotary servo plant (SRV02). The sensor shaft is aligned with the motor shaft. One end of a rigid link is mounted ...

SRV02\_Rotary Pendulum\_User Manual.sxw The following table describes the typical setup using the complete Quanser solution. It is assumed that the ROTPEN is being used along with an SRV02, UPM and Q8 ... SRV02 Gyroscope User Manual The Quanser SRV02 and gyroscope system provides a great platform to study gyroscope properties along with control experiments that resemble real-life ... Rotary Servo Base Unit The Rotary Servo Base Unit is the fundamental element of the Quanser Rotary Control family. It is ideally suited to introduce basic control concepts and ... Control Systems Lab Solutions Quansers lab equipment for control systems are precise, robust, open architecture solutions for a wide range of teaching and research applications. Handbook of Forensic Drug Analysis by Smith, Fred The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. Handbook of Forensic Drug Analysis - 1st Edition The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. HANDBOOK OF FORENSIC DRUG ANALYSIS ... drug testing and drug screenings. The Handbook of Forensic Drug Analysis is not meant for the casual reader interested in gaining an overview of illicit drugs. Handbook of Forensic Drug Analysis (Hardcover) Description. The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. Handbook of Forensic Drug Analysis / Edition 1 The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. With chapters. Handbook of Forensic Drug Analysis - Fred Smith The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. Handbook of Forensic Drug Analysis - Smith, Fred The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. Handbook of Forensic Drug Analysis - Document by CL Winek · 2005 — Gale Academic OneFile includes Handbook of Forensic Drug Analysis by Charles L. Winek. Read the beginning or sign in for the full text. Handbook of Forensic Drug Analysis eBook : Smith, Fred The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs. Handbook of Forensic Drug Analysis - by Fred Smith ... This Handbook discusses various forms of the drug as well as the origin and nature of samples. It explains how to perform various tests, the use of best ...