

## Free-Fall Laboratory

## Answer Key

**Vocabulary:** acceleration, air resistance, free fall, instantaneous velocity, terminal velocity, velocity, vacuum

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

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

1. Suppose you dropped a feather and a hammer at the same time. Which object would hit the ground first? *Answers will vary. [The hammer would hit the ground first.]*
2. Imagine repeating the experiment in an airless tube, or **vacuum**. Would this change the result? If so, how?

*Answers will vary. [In a vacuum, both objects would hit the ground at the same time.]*

### Gizmo Warm-up

The *Free-Fall Laboratory* Gizmo allows you to measure the motion of an object in **free fall**. On the **DESCRIPTION** tab, check that the **Shuttlecock** is selected, the **Initial height** is **3 meters**, and the **Atmosphere** is **Air**.

1. Click **Play** (▶) to release the shuttlecock. How long does it take to fall to the bottom? *0.90 seconds*
2. Select the **GRAPH** tab. The box labeled **h (m)** should be checked, displaying a graph of height vs. time. What does this graph show?  
*The height decreases over time.*
3. Turn on the **v (m/s)** box to see a graph of **velocity** vs. time. Velocity is the speed and direction of the object. Velocity is also referred to as **instantaneous velocity**. Because the shuttlecock is falling downward, its velocity is negative.

Does the velocity stay constant as the object drops? *No*

4. Turn on the **a (m/s/s)** box to see a graph of **acceleration** vs. time. Acceleration is the rate at which the velocity changes over time. What does this graph show?

*Acceleration starts at about  $-10$  m/s/s, but gets closer to 0 as the shuttlecock falls.*



# Fall Gizmos Answer Keys

**Lei Huang**



## **Fall Gizmos Answer Keys:**

**Icicle Falls Christmas Collection** Sheila Roberts, 2018-11-12 Join bestselling author Sheila Roberts for the holidays in Icicle Falls where life is full of surprises and happiness is just around the corner Together for the first time in one box set all the Christmas stories from her popular Life in Icicle Falls series Merry Ex Mas Cass Wilkes owner of the Gingerbread Haus bakery was looking forward to her daughter Danielle's wedding until Dani announced that she wants her father Cass's ex to walk her down the aisle Her friend Charlene Albach arrives at their weekly chick flick night in shock She's just seen the ghost of Christmas past her ex husband Richard who left a year ago when he ran off with the hostess from her restaurant Zelda's Now the hostess is history and he wants to kiss and make up Hide the mistletoe And bring out the hot buttered rum because the holidays aren't easy for Ella O'Brien either Ella newly divorced is still sharing the house with her ex while they wait for the place to sell The love is gone Isn't it But watch as Christmas brings all kinds of surprises Originally published in 2013 Christmas on Candy Cane Lane Everyone's getting ready for Christmas in Icicle Falls especially on Candy Cane Lane where holiday decorating is taken very seriously But this year someone's destroying the precious decorations Thank goodness for the cop in their neighborhood And while some town residents are excited to host their families for the holidays others can sum up the holiday in two words Bah humbug But despite family disasters irritating ex husbands and kitchen catastrophes three women are going to find out that Christmas really is the most wonderful time of the year Originally published in 2015 Christmas in Icicle Falls When Muriel Sterling released her new book A Guide to Happy Holidays she felt like the queen of Christmas She's thrilled when the new tree she ordered online arrives and is eager to show it off until she gets it out of the box and realizes it's a mangy dud But rather than give up on the ugly tree Muriel decides to make a project out of it As she pretties up her tree she realizes there's a lesson to be learned everything and everyone has potential Maybe even her old friend Arnie who's loved her for years Except she's not the only one seeing Arnie's potential Meanwhile Muriel's ugly tree project has also inspired her friends Sienna Moreno is trying to bring out the best in the grouchy man next door who hates noise hates kids and hates his new neighbors And while Olivia Claussen would love to send her obnoxious new daughter in law packing she's adjusting her attitude and trying to discover what her son sees in the girl If these women can learn to see the beauty in the ugly trees in their lives perhaps this might turn out to be the happiest holiday yet Originally published in 2018

**Wonder Wits Teaching Guide** Timothy Tuck, 2005 A teaching resource providing varied activities on problem solving inventiveness and higher order thinking skills as part of thinking skills creativity lessons [The System of Objects](#) Jean Baudrillard, 2005 A cultural critique of the commodity in consumer society The System of Objects is a tour de force a theoretical letter in a bottle tossed into the ocean in 1968 which brilliantly communicates to us all the live ideas of the day [U.S. News & World Report](#), 2005

**The MIDI Manual** David Miles Huber, 2020-10-26 The MIDI Manual A Practical Guide to MIDI within Modern Music Production Fourth Edition is a complete reference on MIDI Written by David

Miles Huber a 4x Grammy nominated musician producer and author this best selling guide provides clear explanations of what MIDI 1.0 and 2.0 are acting as a guide for electronic instruments the DAW MIDI sequencing and how to make best use of them You will learn how to set up an efficient MIDI system and how to get the most out of your production room and ultimately your music Packed full of useful tips and practical examples on sequencing and mixing techniques The MIDI Manual also covers in depth information on system interconnections controllers groove tools the DAW synchronization and more For the first time the MIDI 2.0 spec is explained in light of the latest developments and is accompanied with helpful guidelines for the long established MIDI 1.0 spec and its implementation chart Illustrated throughout with helpful photos and screenshots this is the most readable and clearly explained book on MIDI available **PC Mag** ,2004 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **Human Resource Development** David McGuire,2014-05-19 David McGuire's student friendly introduction looks at Human Resource Development on an individual organisational and societal level analysing how HRD can play a major role in organisational innovation in developing communities and society and in operating on a cross national and international basis Key features Links key training design and learning theories to broader economic and societal issues for a more holistic and in depth understanding of the field Seven brand new chapters ensure a good fit with HRD programmes at all levels and reflect the latest developments in the field including career development strategic HRD knowledge management the environment ethics and CSR and the future of HRD High profile case studies in each chapter bring the theory to life including Apple Massive Open Online Courses Barclays Stephen Lawrence Lloyds Pharmacy Marriott Hotels Netflix Black and Decker Google Colgate Palmolive Marks and Spencer and Valve Case vignettes throughout the chapters highlight HRD in action and provoke critical analysis and discussion including How a Beer Can Aided the Design of Canon's Revolutionary Mini Copier and The Alaskan Village Set to Disappear Under Water in a Decade An Appendix contains advice on preparing for an HRD examination as well as example exam questions and sample answers to ensure examination success Chapters map to the CIPD's requirements at levels 5 and 7 making it an ideal core text for accredited and non accredited programmes alike *Business 2.0* ,2001-08 **Index de Périodiques Canadiens** ,2002 **Applications in Basic Marketing** William D. Perreault (Jr.),William D. Perreault, Jr.,E. Jerome McCarthy,2004-06 **School Library Journal** ,2008 *Fortune* Henry Robinson Luce,1998 *The New York Times Magazine* ,1996-05 *India Today* ,1995-10 **Trail Walker** ,1993 **Adult and Continuing Education Today** ,1983 **Photoshop? 4 for Macs? For Dummies?** Deke McClelland,1997-01-06 Free 16 Page Full Color Photoshop Gallery Inside Explore the Endless Possibilities of Manipulating Photos with Photoshop Find Out How to Bend the Golden Gate Bridge Put a Smile on Mona Lisa and More With Adobe Photoshop's electronic image editing abilities gone are the days of the tacky cut and paste photo collage Photoshop 4 For Macs For Dummies 2nd Edition takes you

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## Whispering the Secrets of Language: An Mental Quest through **Fall Gizmos Answer Keys**

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