

The Language of Physics

Mathematics and Physics

Just as physicists create simplified models to better understand the real world, they use the tools of mathematics to analyze and summarize their observations. Then they can use the mathematical relationships among physical quantities to help predict what will happen in new situations.

Tables, graphs, and equations can make data easier to understand.

There are many ways to organize data. Consider the experiment shown in **Figure 3.1**, which tests Galileo's hypothesis that all objects fall at the same rate in the absence of air resistance. In this experiment, a table-tennis ball and a golf ball are dropped in a vacuum. The results are recorded as a set of numbers corresponding to the times of the fall and the distance each ball falls. A convenient way to organize the data is to form a table like

Figure 3.2.

FIGURE 3.2

DATA FROM DROPPED-BALL EXPERIMENT

Time (s)	Distance golf ball falls (cm)	Distance table-tennis ball falls (cm)
0.067	2.20	2.20
0.133	8.67	8.67
0.200	19.60	19.59
0.267	34.93	34.92
0.333	54.34	54.33
0.400	78.40	78.39

One method for analyzing the data in **Figure 3.2** is to construct a graph of the distance the balls have fallen versus the elapsed time since they were released. This graph is shown in **Figure 3.3** on the next page. Because the graph shows an obvious pattern, we can draw a smooth curve through the data points to make estimations for times when we have no data. The shape of the graph also provides information about the relationship between time and distance.

SECTION 3

Objectives

- ▶ Interpret data in tables and graphs, and recognize equations that summarize data.
- ▶ Distinguish between conventions for abbreviating units and quantities.
- ▶ Use dimensional analysis to check the validity of equations.
- ▶ Perform order-of-magnitude calculations.

FIGURE 3.1

Two Balls Falling in a Vacuum

This experiment tests Galileo's hypothesis by having two balls with different masses dropped simultaneously in a vacuum.



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Walter Emmett Morgan

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

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Table of Contents Holt Mcdougal Physics Test

1. Understanding the eBook Holt Mcdougal Physics Test
 - The Rise of Digital Reading Holt Mcdougal Physics Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Mcdougal Physics Test
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Holt Mcdougal Physics Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Mcdougal Physics Test
 - Personalized Recommendations
 - Holt Mcdougal Physics Test User Reviews and Ratings
 - Holt Mcdougal Physics Test and Bestseller Lists
5. Accessing Holt Mcdougal Physics Test Free and Paid eBooks
 - Holt Mcdougal Physics Test Public Domain eBooks
 - Holt Mcdougal Physics Test eBook Subscription Services
 - Holt Mcdougal Physics Test Budget-Friendly Options

6. Navigating Holt Mcdougal Physics Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Mcdougal Physics Test Compatibility with Devices
 - Holt Mcdougal Physics Test Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Mcdougal Physics Test
 - Highlighting and Note-Taking Holt Mcdougal Physics Test
 - Interactive Elements Holt Mcdougal Physics Test
8. Staying Engaged with Holt Mcdougal Physics Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Mcdougal Physics Test
9. Balancing eBooks and Physical Books Holt Mcdougal Physics Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Mcdougal Physics Test
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Holt Mcdougal Physics Test
 - Setting Reading Goals Holt Mcdougal Physics Test
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Holt Mcdougal Physics Test
 - Fact-Checking eBook Content of Holt Mcdougal Physics Test
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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