

Chapter 1.2: Falling Balls

Vocabulary (short definition/use in a sentence)

- Mass: How difficult the ball is to accelerate
- Weight: How hard the gravity is pulling down the ball
- Acceleration due to gravity: Local strength of gravity which is constant
- Free fall: downward movement under the force of gravity
- Components: quantities that give directions
- Trajectory: combination of components when a ball is initially moving

Units (what quantity is measured in the following)

- Kilogram (kg): mass
- Newton (N): force

Equations and physical laws (express in words)

- Weight ($\vec{w} = m\vec{g}$) weight = mass \cdot acceleration due to gravity
- Uniform acceleration ($\vec{v}_f = \vec{v}_i + \vec{a}t$) present velocity = initial velocity + acceleration \cdot time
- Uniform acceleration ($\vec{x}_f = \vec{x}_i + \vec{v}_i t + \frac{1}{2}\vec{a}t^2$) present position = initial position + initial velocity \cdot time + $\frac{1}{2}$ acceleration \cdot time 2

Example problems/questions:

1. Which falls faster and which accelerates faster - a bowling ball or a tennis ball? Explain your reasoning (and if they are the same thing).

They would fall at the same time since they both have same acceleration going down.

2. How does gravity affect a ball that is thrown sideways?

Not much since components is the one affect.

3. Which takes longer - a ball rising from your hand to its peak height or returning to your hand? Why?

Takes same because initial velocity is same for rising and returning.

4. Traveling to a mystery planet, you find your weight is 10 times your weight on Earth. What is that planet's acceleration due to gravity?

98.1 m/s^2 Earth's gravity is 9.81 m/s^2 so times 10.

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Table of Contents Guided Reading Chapter 1section 2

1. Understanding the eBook Guided Reading Chapter 1section 2
 - The Rise of Digital Reading Guided Reading Chapter 1section 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Guided Reading Chapter 1section 2
 - 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 Guided Reading Chapter 1section 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guided Reading Chapter 1section 2
 - Personalized Recommendations
 - Guided Reading Chapter 1section 2 User Reviews and Ratings
 - Guided Reading Chapter 1section 2 and Bestseller Lists
5. Accessing Guided Reading Chapter 1section 2 Free and Paid eBooks
 - Guided Reading Chapter 1section 2 Public Domain eBooks

- Guided Reading Chapter 1section 2 eBook Subscription Services
- Guided Reading Chapter 1section 2 Budget-Friendly Options
- 6. Navigating Guided Reading Chapter 1section 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Guided Reading Chapter 1section 2 Compatibility with Devices
 - Guided Reading Chapter 1section 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guided Reading Chapter 1section 2
 - Highlighting and Note-Taking Guided Reading Chapter 1section 2
 - Interactive Elements Guided Reading Chapter 1section 2
- 8. Staying Engaged with Guided Reading Chapter 1section 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guided Reading Chapter 1section 2
- 9. Balancing eBooks and Physical Books Guided Reading Chapter 1section 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guided Reading Chapter 1section 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Guided Reading Chapter 1section 2
 - Setting Reading Goals Guided Reading Chapter 1section 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Guided Reading Chapter 1section 2
 - Fact-Checking eBook Content of Guided Reading Chapter 1section 2
 - 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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