

# Answers to Conceptual Integrated Science End-of-Chapter Questions

## Chapter 1: About Science

### Answers to Chapter 1 Review Questions

- 1 The era of modern science in the 16th century was launched when Galileo Galilei revived the Copernican view of the heliocentric universe, using experiments to study nature's behavior.
- 2 In *Conceptual Integrated Science*, we believe that focusing on math too early is a poor substitute for concepts.
- 3 We mean that it must be capable of being proved wrong.
- 4 Nonscientific hypotheses may be perfectly reasonable; they are nonscientific only because they are not falsifiable—there is no test for possible wrongness.
- 5 Galileo showed the falseness of Aristotle's claim with a single experiment—dropping heavy and light objects from the Leaning Tower of Pisa.
- 6 A scientific fact is something that competent observers can observe and agree to be true; a hypothesis is an explanation or answer that is capable of being proved wrong; a law is a hypothesis that has been tested over and over and not contradicted; a theory is a synthesis of facts and well-tested hypotheses.
- 7 In everyday speech, a theory is the same as a hypothesis—a statement that hasn't been tested.
- 8 Theories grow stronger and more precise as they evolve to include new information.
- 9 The term *supernatural* literally means "above nature." Science works within nature, not above it.
- 10 They rely on subjective personal experience and do not lead to testable hypotheses. They lie outside the realm of science.
- 11 Science, art, and religion can work very well together; like strings on a guitar, when played together, the chord they produce can be a chord of profound richness.
- 12 Science is concerned with gathering knowledge and organizing it. Technology lets humans use that knowledge for practical purposes, and it provides the instruments scientists need to conduct their investigations.
- 13 Chemistry builds on physics by telling us how matter is put together, how atoms combine to form molecules, and how the molecules combine to make the materials around us. Biology is more complex than physical science (physics and chemistry), because it involves matter that is alive and, therefore, engaged in complex biochemical processes.
- 14 Integrated science is valuable because the real-life phenomena we are interested in typically involve principles from more than one branch of science; put another way, we study integrated science because the world is integrated.

### Answers to Chapter 1 Integrated Science Concepts

#### Chemistry and Biology: An Investigation of Sea Butterflies

- 1 The disciplines of biology and chemistry are needed to understand the behavior of the Antarctic amphipod.
- 2 The control used in the investigation was the pellets fed to the predator fish that were not treated with sea-butterfly extracts. The control was needed to see whether the chemical deterrent isolated from the sea butterfly deterred the predator fish.
- 3 McClintock and Baker's hypothesis was that amphipods carry sea butterflies because sea butterflies produce a chemical that deters a predator of the amphipod. This is a scientific hypothesis because it would be proven wrong if the secreted chemical were found to not deter amphipod predators.

### Answers to Chapter 1 Exercises

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**F Rizvi**



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## **Table of Contents Conceptual Integrated Science Second Edition Answer Key**

1. Understanding the eBook Conceptual Integrated Science Second Edition Answer Key
  - The Rise of Digital Reading Conceptual Integrated Science Second Edition Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Integrated Science Second Edition Answer Key
  - 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 Conceptual Integrated Science Second Edition Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Integrated Science Second Edition Answer Key
  - Personalized Recommendations
  - Conceptual Integrated Science Second Edition Answer Key User Reviews and Ratings
  - Conceptual Integrated Science Second Edition Answer Key and Bestseller Lists

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