

# 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 revised 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 reason that it must be capable of being proved wrong.
4. Nonscientific hypotheses must be perfectly reasonable; they are nonscientific only because they are not falsifiable—there is no test for possible wrongness.
5. Galileo showed the fallacious 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 sound 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 pollens 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. McCoskey 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

# Conceptual Integrated Science Explorations Answer Key

**National Board for Professional  
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## **Conceptual Integrated Science Explorations Answer Key:**

Conceptual Integrated Science Explorations Paul G. Hewitt, Suzanne Lyons, John Suchocki, 2010      **Conceptual Integrated Science--Explorations** Paul G. Hewitt, 2008-11-01      **Conceptual Integrated Science** Paul G. Hewitt, 2010  
*Practice Book for Conceptual Integrated Science* Paul G. Hewitt, Suzanne A. Lyons, John A. Suchocki, Jennifer Yeh, 2019-01-04      *Journey to Inspire, Innovate, and Discover* United States. President's Commission on Implementation of United States Space Exploration Policy, Edward C. Aldridge, 2004 Chairman Edward C. Pete Aldridge Jr      **A journey to inspire, innovate, and discover : report of the President's Commission on Implementation of United States Space Exploration Policy** ,      *Data Science, Challenges and Applications in Industrial Operations* Elena Barbadilla-Martín, Alicia Robles-Velasco, María Rodríguez-Palero, Pablo Cortés, 2026-01-01 This book collects a selection of papers presented at the 19th International Conference on Industrial Engineering and Industrial Management and XXIX Congreso de Ingenieros de Organizaci n CIO2025 that took place on 3 and 4 July 2025 in Seville The conference was hosted by the Asociaci n para el Desarrollo de la Ingenier a de Organizaci n ADINGOR and was organized by the Universidad de Sevilla Spain Some of the topics covered in the proceedings book include Supply Chain Management and Logistics Operations Research Modelling and Simulation Industry 5.0 and Management Information Systems Robotics and Control in Industrial Engineering Project and Process Management Education in Industrial Engineering Circular Economy among others      *Interdisciplinary Environmental Solutions* Barnali Dixon, 2025-07-02 This textbook presents a clear and accessible argument for sustainable planning and development The book discusses multiple environmental issues and examines how potential solutions can and should be addressed in the context of space and place The book also offers an invaluable discussion on the need for a framework for system based thinking where various disciplines should work together to find innovative solutions Students are provided with an appreciation of the need for an interdisciplinary approach to these issues combined with an underlying sense of space an appreciation of cultural diversity and differences as well as associated insights into human relationships These core attributes put space at the heart of environmental and natural resources management in terms of policy planning and on the ground initiatives This book will be an invaluable reference for advanced undergraduate graduate students and researchers working in the field looking for an accessible overview of this interdisciplinary approach to the topic  
**SIGKDD Explorations** ,2000      **Resources in Education** ,1998      Library & Information Science Abstracts ,2008  
**Cyberinfrastructure Technologies and Applications** Junwei Cao, 2009 Cyberinfrastructure was proposed in a report of the NSF Blue Ribbon advisory panel in 2003 Cyberinfrastructure will provide a unified environment to access and manage cyber resources e.g supercomputers data archives software services scientific instruments and virtual organisations In this book the authors review latest research and development and discuss new technologies and applications involved in building Cyberinfrastructure The purpose of this book is to provide a detailed summary of early experiences practices and lessons

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