

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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