

SECTION 1.3 *Communication in Science, continued*

In your textbook, read about models, theories, and laws.

Use the following terms to complete the statements.

law

model

theory

7. A scientific _____ is an idea, a system, or a mathematical expression that is similar to an idea being explained.
8. A scientific _____ is an explanation based on many observations during repeated experiments.
9. A scientific _____ is a basic fact that describes the behavior of a natural phenomenon.

Answer the following questions.

10. What was one model of the solar system developed by early astronomers?

11. What is the current model of our solar system?

12. What three conditions must be satisfied for a scientific theory to be valid?

13. Under what conditions can a scientific model or theory change?
