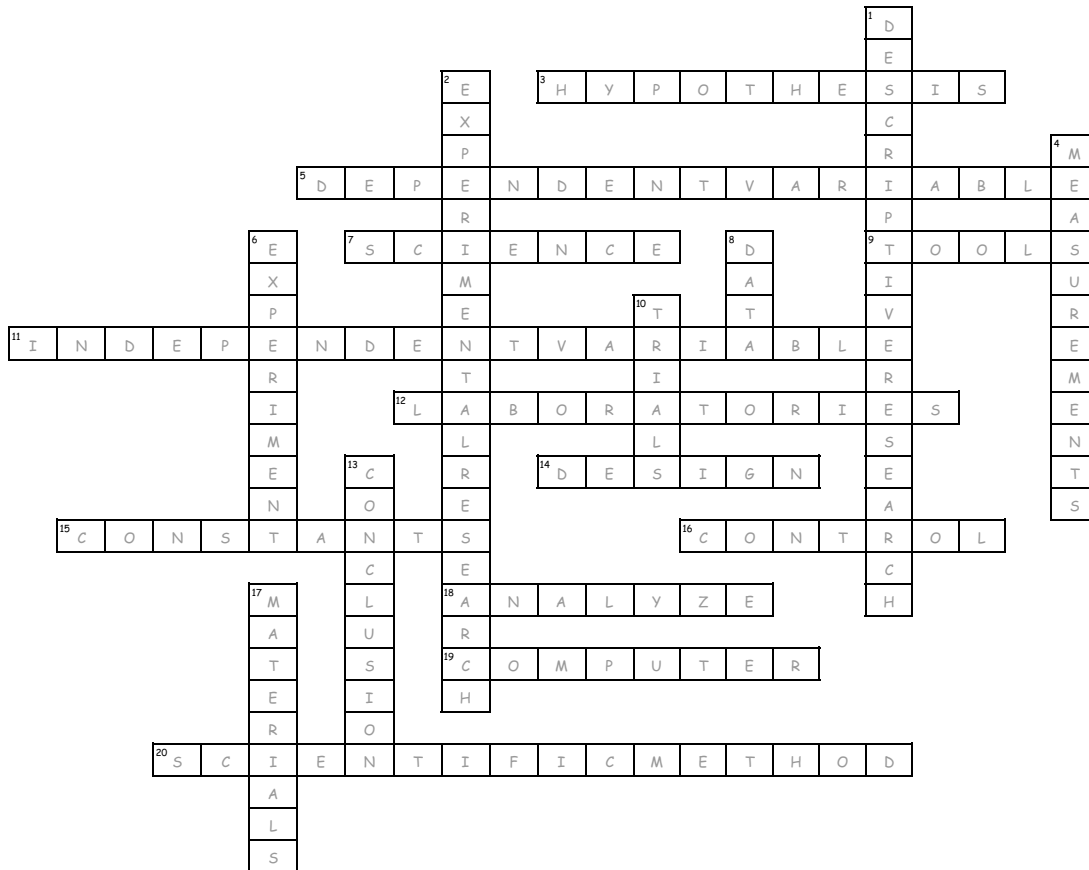


# chapter 1: The Nature of Science



**Across**

- 3. Prediction or statement that can be tested and may be formed by prior knowledge, any previous observations, and new information.
- 5. Factor that is being measured during an experiment.
- 7. Process used to investigate what is happening around us in order to solve problems or answer questions; part of everyday life.
- 9. a device or implement, especially one held in the hand, used to carry out a particular function.
- 11. A variable that can be changed during a experiment.
- 12. a room or building equipped for scientific experiments, research, or teaching, or for the manufacture of drugs or chemicals.
- 14. purpose, planning, or intention that exists or is thought to exist behind an action, fact, or material object.
- 15. Variable that stays the same during an experiment.
- 16. a sample that is treated like other experimental groups except that is the independent variable is not applied to it.
- 18. discover or reveal (something) through detailed examination
- 19. an electronic device for storing and processing data, typically in binary form, according to instructions given to it in a variable program.
- 20. Ways to solve problems that can include step-by-step plans, making models, and carefully through-out experiments.

**Down**

- 1. Answers scientific questions through observation.
- 2. Used to answer scientific questions by testing a hypothesis through the use of a series of carefully controlled steps.
- 4. the size, length, or amount of something, as established by measuring.
- 6. A set of controlled steps carried out to discover, test, or demonstrate.
- 8. facts and statistics collected together for reference or analysis
- 10. a test of the performance, qualities, or suitability of someone or something.
- 13. a judgment or decision reached by reasoning.
- 17. facts, information, or ideas for use in creating a book or other work.