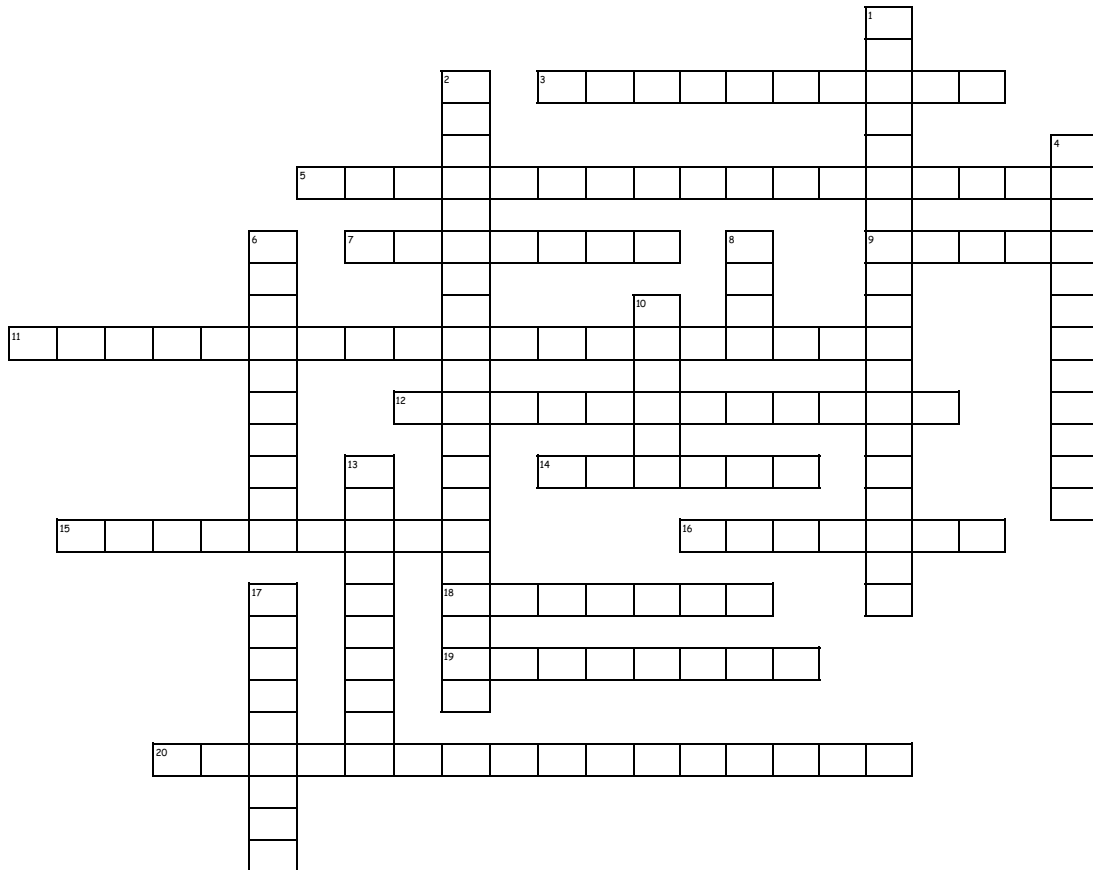


# chapter 1: The Nature of Science



## 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.