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chapter 1: The Nature of Science

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| **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. |