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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. |