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The Scientific Method

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| **Across**  **4.** To determine the extent, quantity or dimensions  **6.** To repeat a research study, usually with different participants and in different situations, to confirm the results of the original study  **12.** To notice similarities or differences  **15.** The methodological studying of the natural world through experimentation and verification of facts  **18.** A detailed series of steps to follow to perform an experiment  **20.** A feature of the experiment that does not change  **21.** To name or recognize something based on its properties  **22.** The collecting of information on a particular subject  **23.** To make a conclusion based on reasoning and observations  **24.** To group information into categories  **25.** Visual aids used by scientists to communicate results of an experiment  **26.** The process used by scientists to solve problems  **27.** Part of the experiment capable to change  **28.** What a scientist writes summarizing the results of an experiment  **29.** The action or process of examining something carefully in order to  **30.** Indicate in advance on the basis of observation, experience or scientific reason | **Down**  **1.** A scientific procedure undertaken to make a discovery, test a hypothesis or demonstrate a known fact  **2.** The outcome or conclusion of an experiment after a period of time  **3.** The first step in the scientific method is to define or identify the \_\_\_\_\_\_\_\_.  **5.** To form an idea as a result of the analysis of the data  **7.** A standard to compare with the results in an experiment  **8.** The variables that the experimenter changes to test their dependent variable  **9.** To cause favoritism or influence to experimental results  **10.** The variable that depends on other factors, also the variable that will be measured and affected during the experiment  **11.** To examine carefully and in detail to identify  **13.** To observe carefully and in detail  **14.** A statement predicting the result of a controlled scientific experiment  **16.** Evidence gathered through observations (especially during experiments)  **17.** To record observations, research and other information related to the experiment  **19.** To write down in permanent form for later reference |