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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

The Scientific Method

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|  |  |  |  |  |  |  | 1  E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  | P |  | E |  | 3  P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 4  M | E | A | S | U | R | E |  |  |  |  | 5  F |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | R |  | U |  | O |  |  |  |  |  | O |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | I |  | L |  | B |  |  |  |  |  | 6  R | E | P | L | I | 7  C | A | T | E |  |  |  |  |
|  |  |  |  | 8  I |  |  | M |  | T |  | L |  | 9  B |  |  |  | M |  |  |  |  | O |  |  |  |  |  |  |  |
|  |  |  |  | N |  |  | E |  |  |  | E |  | I |  | 10  D |  | U |  | 11  A |  |  | N |  |  |  |  |  |  |  |
|  |  |  |  | D |  |  | N |  | 12  C | O | M | P | A | R | E |  | L |  | N |  |  | T |  |  |  |  |  |  |  |
|  |  |  |  | E |  |  | T |  |  |  | S |  | S |  | P |  | A |  | A |  |  | R |  | 13  E |  |  |  |  |  |
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|  |  |  |  | E |  |  |  |  | 14  H |  | 15  S | C | I | E | N | C | E |  | Y |  |  | L |  | A |  |  |  |  |  |
|  |  |  |  | N |  |  | 16  D |  | Y |  |  |  |  |  | D |  |  |  | Z |  |  |  |  | M |  | 17  J |  |  |  |
|  |  |  |  | D |  |  | A |  | P |  | 18  P | R | O | C | E | D | U | R | E |  |  |  |  | I |  | O |  |  |  |
|  |  |  |  | E |  |  | T |  | O |  |  |  |  |  | N |  |  |  |  |  |  | 19  R |  | N |  | U |  |  |  |
|  |  | 20  C | O | N | S | T | A | N | T |  | 21  I | D | E | N | T | I | F | Y |  |  | 22  R | E | S | E | A | R | C | H |  |
|  |  |  |  | T |  |  |  |  | H |  |  |  |  |  | V |  |  |  |  |  |  | C |  |  |  | N |  |  |  |
|  |  |  |  | V |  | 23  I | N | F | E | R |  |  | 24  C | L | A | S | S | I | F | Y |  | O |  | 25  G | R | A | P | H | S |
|  |  |  |  | A |  |  |  |  | S |  |  |  |  |  | R |  |  |  |  |  |  | R |  |  |  | L |  |  |  |
|  |  |  |  | R |  |  | 26  S | C | I | E | N | T | I | F | I | C | M | E | T | H | O | D |  |  |  |  |  |  |  |
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|  |  |  |  | A |  |  |  |  |  | 27  V | A | R | I | A | B | L | E |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | B |  |  |  |  |  |  |  |  |  |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28  C | O | N | C | L | U | S | I | O | N |  |  | 29  O | B | S | E | R | V | A | T | I | O | N |  |  |  |  |  |  |  |
|  |  |  |  | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 30  P | R | E | D | I | C | T |  |  |  |  |  |  |  |  |  |  |  |

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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 |