**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Scientific Method Quiz**

Match the vocabulary to the statements.

1. \_\_\_\_ An educated guess

2. \_\_\_\_ Factor in an experiment that is missing the variable but is the same as other factors in every other way

3. \_\_\_\_ Written or recorded observations made while using the scientific method

4. \_\_\_\_ Step-by-step process that scientists have developed to help them solve problems and test new ideas

5. \_\_\_\_ A hypothesis that has been tested many times and is supported by data

6. \_\_\_\_ Factor being tested; the one factor that is different from all others in an experiment

7. \_\_\_\_ An activity or group of activities performed to test a hypothesis

8. \_\_\_\_ Final statement made after an experiment to prove or disprove the hypothesis

A. Scientific Method

B. Single Variable

C. Control

D. Hypothesis

E. Experiment

F. Data

G. Theory

H. Conclusion

**Fill-in-the-blank:** Read the following paragraph, and circle the word that best fills each blank.

The \_\_\_9\_\_\_ method is a process that scientists use to help them test new ideas. The first step in the process is defining the \_\_\_10\_\_\_ . Next, information must be gathered using one of more of the five \_\_\_11\_\_\_ . The scientist then makes an educated guess or a \_\_\_12\_\_\_ . This is tested by performing one or more activities called \_\_\_13\_\_\_ . Observations are made and recorded. The recorded observations are known as \_\_\_14\_\_\_ . After analyzing the data, the scientist comes to a \_\_\_15\_\_\_ that either proves or disproves the hypothesis. When a hypothesis is tested many times and supported, it becomes known as a\_\_\_16\_\_\_.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **9.** |  |  | **13.** |  |  |
|  |  |  |  |  |  |  |
|  | A. Variable |  |  | A. Theories |
|  | B. Scientific |  |  | B. Experiments |
|  | C. Control |  |  | C. Properties |
|  | D. Biological |  |  | D. None of the above |
|  | **10.** |  |  | **14.** |  |  |
|  | A. Conclusion |  |  | A. Data |
|  | B. Data |  |  | B. Hypotheses |
|  | C. Experiment |  |  | C. Structures |
|  | D. Problem/question |  |  | D. Expressions |
|  | **11.** |  |  | **15.** |  |  |
|  | A. Senses |  |  | A. Meeting |
|  | B. Controls |  |  | B. Consideration |
|  | C. Solutions |  |  | C. Laboratory |
|  | D. Solvents |  |  | D. Conclusion |
|  | **12.** |  |  | **16.** |  |  |
|  | A. Variable |  |  | A. Solvent |
|  | B. Factor |  |  | B. Control |
|  | C. Hypothesis |  |  | C. Deduction |
|  | D. Consideration |  |  | D. Theory |