

# Physical Science

## MP 1 - B

### MATCHING - 1

Directions: Place the correct letter on the line that matches the definition to the word

- |                             |   |
|-----------------------------|---|
| _____ 1. Empirical evidence | A. representation of something in the natural world   |
| _____ 2. Science            | B. well supported explanation of the natural world  |
| _____ 3. Testable           | C. information gathered by observation or experimentation that can be used in calculating and reasoning |
| _____ 4. Evidence           | D. hypothetical landmass that existed when all continents were joined                                   |
| _____ 5. Law                | E. the force of attraction by which terrestrial bodies tend to fall toward the center of Earth          |
| _____ 6. Model              | F. evidence gathered from observation   |
| _____ 7. Pangea             | G. the trial of the quality of something; proof   |
| _____ 8. Gravity            | H. that which tends to prove or disprove something; ground for belief                                   |
| _____ 9. Theory             | I. systematic study of natural events and conditions  |
| _____ 10. Data              | J. describes basic principle of nature that always occurs under certain conditions                      |

**FILL IN - 1**

**Directions: Use each of the terms below just once to complete the passage.**

**hypothesis**

**theory**

**science**

**graph**

**table**

**data**

**law**

**experiment**

**model**

**empirical evidence**

1. A good scientific \_\_\_\_\_ can repeated by someone else and the same results is found.
2. A(n) \_\_\_\_\_ can be a visual or a mathematical representation of an object or process.
3. Science uses \_\_\_\_\_ to support its explanation.
4. Data can be arranged in visual displays called \_\_\_\_\_ to make identifying trends easier.
5. A scientific \_\_\_\_\_ has a lot of support and is more than just a "hunch."A(n)
6. A(n) \_\_\_\_\_ determines what will be tested in a scientific experiment.
7. The study of \_\_\_\_\_ involves the study of the natural world
8. After data are collected, they are often arranged in a(n) \_\_\_\_\_.
9. Unlike in society, a scientific \_\_\_\_\_ is simply a description of what we see.
10. All of the \_\_\_\_\_ gathered in an investigation must be recorded.

## MULTIPLE CHOICE

Directions: Circle the letter that best completes the question.

1. What would cause a theory or model to change?

- A. new evidence
- B. new explanation
- C. new experiment
- D. they never change

2. What types of web pages would have the most reliable scientific information?

- A. the government
- B. NASA
- C. a university webpage
- D. all of the above

3. An experiment tests the \_\_\_\_\_.

- A. conclusion
- B. hypothesis
- C. data
- D. observation

4. How many variables are tested during an experiment?

- A. 1
- B. 2
- C. 3
- D. 4

5. How many layer does Earth have?

- A. 1
- B. 2
- C. 3
- D. 4

6. What are some characteristics shared by people working in the field of science?

- A. they are curious
- B. they are creative
- C. they are problem solvers
- D. all of the above

7. Who identified and coined the word "cell"?

- A. Robert Hooke
- B. Marie Curie
- C. Antoine Lavoisier
- D. Luis Alvarez

8. Data can be arranged in visual displays called \_\_\_\_\_ to make identifying trends easier.

- A. model
- B. table
- C. graph
- D. equation

9. The horizontal axis, x-axis, displays the \_\_\_\_\_.

A. dependent variable

B. independent variable

10. How many types of graphs did we learn about?

A. 1

C. 4

B. 3

D. 5

11. They used the "bluegills" to test the water because the fish -

\_\_\_\_\_.

A. they cough

C. vomit

B. they swim in circles

D. they die

### SHORT ANSWERS

**Directions: Answer all short answer questions using complete sentences. Spelling and grammar count.**

1. What is empirical evidence?

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2. Name two ways scientists show creativity.

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3. What was the landmass called before the separation? Name the seven continents.

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