

Name \_\_\_\_\_

## The Significance of Data and Observation

### Multiple-Choice Questions

1. What is data collection in science compared to in a treasure hunt?
  - a) Opening a treasure chest
  - b) Creating a map
  - c) Finding a compass
  - d) Reading a book
2. Why is evidence-based knowledge important in science?
  - a) It adds personal bias to research.
  - b) It strengthens research findings.
  - c) It eliminates the need for data collection.
  - d) It relies on opinions rather than facts.
3. What is the purpose of using surveys and questionnaires in data collection?
  - a) To manipulate variables
  - b) To make direct observations
  - c) To gather information from many people
  - d) To conduct controlled experiments
4. How do observations often lead to new discoveries in science?
  - a) By relying on personal biases
  - b) By providing quantifiable data
  - c) By sparking further investigation
  - d) By using specialized tools
5. What is the relationship between data collection and observation in scientific research?
  - a) They are unrelated processes.
  - b) Data collection always follows observation.
  - c) They complement and enhance each other.
  - d) Observation is a more reliable method.

