

Multiple Choice and True / False

- 1. The variable that is deliberately changed in an experiment is called the _____.**
 - a. control group**
 - b. dependent variable**
 - c. independent variable**
 - d. responding variable**

- 2. An inference is a logical interpretation based on what scientists already know.**
 - a. True**
 - b. False**

- 3. In terms of scientific methodology, the purpose of an experiment is to _____.**
 - a. form a hypothesis**
 - b. prove a theory**
 - c. form a conclusion**
 - d. test a hypothesis**

- 4. Scientific investigations typically begin with _____.**
 - a. testing a hypothesis**
 - b. forming a hypothesis**
 - c. making observations**
 - d. proving a theory**

- 5. A control group is exposed to the same condition as the experimental group except for one independent variable.**
 - a. True**
 - b. False**