

## Chapter 1 Pretest -- Science Practices

### Multiple Choice

*Identify the choice that best completes the statement or answers the question.*

- \_\_\_\_\_ 1. A good hypothesis is:
- a prediction based on observations.
  - a wild guess.
  - a question.
  - an observation.
- \_\_\_\_\_ 2. What professionals use scientific knowledge to create or improve inventions that solve problems?
- Astronomers
  - Biologists
  - Earth scientists
  - Engineers
- \_\_\_\_\_ 3. What type of model would a scientist use to forecast ocean temperature change?
- Physical
  - Conceptual
  - Mathematical
  - Computer
- \_\_\_\_\_ 4. Sophia plays the piano. Which of the following would be an **opinion** by Sophia about her piano?
- I enjoy playing the piano.
  - My piano has 88 keys.
  - My piano has 3 pedals.
  - The last key on my piano is a C.
- \_\_\_\_\_ 5. Valid experimental observations are **objective** and **repeatable**. Why is this important?
- Data must be accurate to be accepted by scientists everywhere.
  - Scientific knowledge changes and grows, and is based on previous experiments.
  - Scientists share information and repeat others' investigations to gain a better understanding of what is happening in an experiment.
  - All of the above

**Chapter 1 Pretest -- Science Practices  
Answer Section****MULTIPLE CHOICE**

- |           |        |                   |                  |
|-----------|--------|-------------------|------------------|
| 1. ANS: A | PTS: 1 | DIF: basic        | REF: section 1.2 |
| 2. ANS: D | PTS: 1 | DIF: basic        | REF: section 1.3 |
| 3. ANS: D | PTS: 1 | DIF: intermediate | REF: section 1.3 |
| 4. ANS: A | PTS: 1 | DIF: intermediate | REF: section 1.1 |
| 5. ANS: D | PTS: 1 | DIF: intermediate | REF: section 1.2 |

A   1.

  D   2.

  D   3.

  A   4.

  D   5.