

Modeling Practice Worksheet

Name _____

1. Many scientific models are created with computers because only computers can efficiently manipulate such enormous amounts of data.
 - a. TRUE
 - b. FALSE

2. Which statement is true about models?
 - a. Models deal with only a portion of a system because most systems are too complex.
 - b. Models can't be used for making predictions.
 - c. It is harder to work with a model than with a natural system.
 - d. All of the above

3. What are some limitations of scientific models?
 - a. Models only show a portion of a system
 - b. Models are more complicated than the real object or system
 - c. Models include too many variables that affect predictions
 - d. All of these

4. A physical model can be explained as a type of scientific model which is a smaller and simpler representation of the things being studied.
 - a. TRUE
 - b. FALSE

5. _____ models tie together many ideas about a phenomenon or system and are represented in an abstract way.
 - a. Conceptual
 - b. Physical
 - c. Both A and B
 - d. None of the above

6. Models can be used to make predictions.
 - a. TRUE
 - b. FALSE

7. Physical models are higher versions of reality.

- a. TRUE
- b. FALSE

8. Which model ties together many ideas to explain a phenomenon or event?

- a. Physical model
- b. Conceptual model
- c. Biological model
- d. Mathematical model

9. Fill in the blank(s):

Complete the sentence using the word Conceptual, Physical, or Mathematical.

_____ models use equations to describe reality.

10. A globe is an example of a

- a. Mathematical model
- b. Conceptual model
- c. Physical model
- d. None of the above

