

Understanding Scientific Models

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Review of Limitations of Models

Name: _____

Date: _____

Answer the following questions based on what we learned about scientific models and their limitations.

1. What do scientific models represent?

- A. Perfect pictures of reality
- B. Simplified representations of complex systems
- C. Only one aspect of a system

2. What is one limitation of scientific models?

3. All scientific models are completely accurate and represent reality perfectly.

- True False

4. Models help scientists understand complex systems, but they are not ____ of reality.

5. Why do scientists update models?

- A. To make them more complicated
- B. To keep up with new discoveries
- C. Because models are not needed

6. How does 1 Corinthians 13:12 relate to scientific models?

7. Models can be helpful tools for understanding even though they are not perfect.

- True False

8. A model may miss important details about a real system because it is a ____ representation.

9. What did we learn about the purpose of models in science today?

- A. They are always accurate
- B. They help us understand complex ideas
- C. They are only used in math

10. What might a model miss about a real system?

Answer Key

1. Simplified representations of complex systems 2. They cannot show every detail of a complex system. 3. False 4. representations 5. To keep up with new discoveries 6. It shows that just like our understanding is limited, models also have limitations in what they can show. 7. True 8. simplified 9. They help us understand complex ideas 10. It might miss smaller details or interactions that are important for understanding the whole system.