

Chapter 1 Study Guide

1. Who write peer-reviewed journals? _____
2. Who do scientists need to be creative? _____
3. Suppose that a scientist proposes a hypothesis about how a newly discovered animal. Other animal researchers would likely:

4. List the steps of the scientific method: _____

5. What are the smallest objects biologists study? _____
6. Based on your observations, you suggest that salt in water causes an egg to float. This is a(n) _____
7. A mass of 3000 g is equal to _____ kg.
8. What is a goal of science? _____

9. Scientist try to use explanation of the natural world to understand patterns and make _____ about natural events.
10. Charles Darwin's ideas about change over time (evolution) have been well tested by other scientist and are now considered to be a _____.
11. Why is it NOT useful to view science as a set of facts? _____

12. Why is the phrase "it's just a theory" wrong when applied to the scientific theory? _____

13. Match meter, gram, liter, and Celsius with common metric units.

Main Ideas:

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| <ul style="list-style-type: none">• Scientific Attitudes• Peer Review• Common Metric Units | <ul style="list-style-type: none">• Scientific Method• Big Ideas in Biology• Scientific Theory |
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Vocabulary: Study your vocab!!!! But especially:

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| <ul style="list-style-type: none">• DNA-• Homeostasis-• Theory-• Bias-• Inference-• Genomics-• Ecology-• Peer Review-• Dependent Variable- | <ul style="list-style-type: none">• Data-• Observation-• Hypothesis-• Science-• Stimulus-• Metabolism-• Biotechnology-• Independent Variable- |
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