

Unit A: The Science of Biology

What is Science?

1. **What does science study?**
Science is the study of the natural world, the search for patterns and connections between events.
2. **What does it mean to describe a scientist as skeptical? Why is skepticism considered a valuable quality in a scientist?**
Skeptics question both existing ideas and new hypotheses. Skepticism is valuable because scientific understanding is always changing.
3. **What is the main difference between qualitative and quantitative observations?**
Qualitative observations involve characteristics that cannot be measured or counted.
4. **What is a scientific hypothesis? In what two ways can a hypothesis be tested?**
A hypothesis is a proposed scientific explanation for a set of observations. One can be tested by performing a controlled experiment or by gathering more data.
5. **Is a scientific hypothesis accepted if there is no way to demonstrate that the hypothesis is wrong? Explain your answer.**
No. Scientific hypotheses must be proposed in a way that enables them to be tested.
6. **Suppose a community proposes a law to require the wearing of seatbelts in all moving vehicles. How could scientific research have an impact on the decision?**
Answers will vary. A typical response might suggest that research could determine whether seatbelts would reduce accident fatalities.

Making a Table

List the five main senses – vision, hearing, smell, taste and touch – and give an example of an observation that you have made using each sense. Then, add at least one inference that could be made based on each observation.

How Scientists Work?

1. **Why is Redi's experiment on spontaneous generation considered a controlled experiment?**
Redi controlled all variables but one – whether or not there was gauze over each jar.
2. **How does a scientific theory compare with a scientific hypothesis?**
A hypothesis is a proposed scientific explanation for a set of observations, whereas a theory is a well-tested explanation that unifies a broad range of observations.
3. **How do scientists today usually communicate their results and conclusions?**
They often publish a report of their work in a scientific journal.
4. **How did the design of Pasteur's flask help him successfully refute the hypothesis of spontaneous generation?**
The curved neck of Pasteur's flask prevented microorganisms from the air from getting into the broth, keeping the broth free of microorganisms. He showed that all living things come from other living things.

Prentice Hall Biology 9 Workbook Answers

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