

Section Review

Scientific Methods

USING VOCABULARY

Correct each statement by replacing the underlined term.

1. Observations are the ways in which scientists answer questions and solve problems.

2. Hypotheses are pieces of information that are gathered through experimentation.

3. Data are possible explanations or answers to a question.

UNDERSTANDING CONCEPTS

4. **Listing** Name the steps that can be used in scientific methods.

5. **Describing** After an experiment has been done and data have been collected, what is the next thing that should be done with the data?

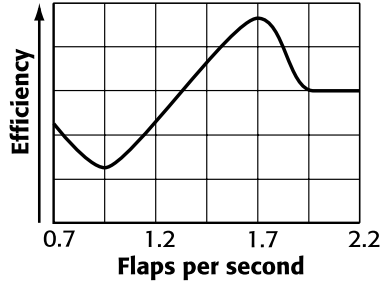
6. **Analyzing** If a scientist performed an experiment only once, why would the results not be valid?

Section Review *continued*

INTERPRETING GRAPHICS

Use the graph below to answer the next two questions.

Efficiency of *Proteus*



7. Identifying At what number of flaps per second is *Proteus* most efficient? least efficient?

8. Analyzing At approximately what point does the efficiency appear neither to increase nor to decrease?

MATH SKILLS

9. Analyzing Ideas If a hypothesis that you test is not supported by the results of your experiment, was your investigation therefore a failure? Explain.
