

**Chapter 21**

Use with Section 2

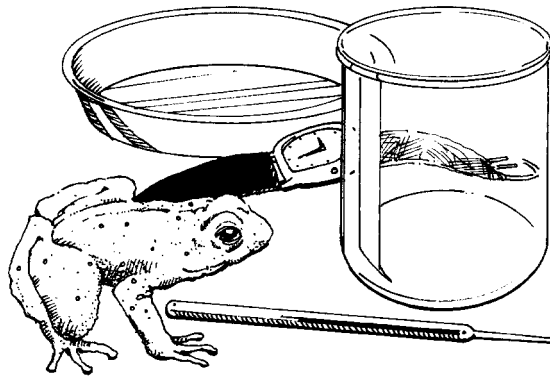
**ENRICHMENT****• Amphibians and Reptiles****Designing an Experiment**

Amphibians hibernate during the cold winter months, burying themselves in mud or leaves until the temperature rises. They don't eat and they barely move during hibernation. Their bodies slow down. Do you think that their internal body processes also slow down? One internal process that you can observe in a frog is its breathing, because you can watch the movements of a frog's throat as it breathes in air. To find out how temperature affects breathing, you could count the frog's breaths and relate them to temperature.

With those thoughts in mind, design an experiment that would examine the effect of changes in temperature on amphibian body processes. Use the materials listed below in your experiment design. You can add other materials if you wish. Write the step-by-step procedure of how you would perform your experiment. Then, write a statement of what you would expect the results of the experiment to be. Remember, you don't want to harm the amphibian in any way.

**Materials**

- frog or other amphibian
- thermometer
- glass jar
- ice
- warm water
- pan
- clock or watch




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