

Group Members: ANSWER KEY

Ectotherm ER: Frogs Under the Weather
Experimental Design
Using the Scientific Method

Problem: How do we investigate the impact of microhabitat on frog temperature?

Independent Variable: microhabitat

Dependent Variable: frog temperature

Question:

1. How could microhabitat affect an ectotherm? (Answers may vary)

Sample response:

Different microhabitats offer frogs different availability of:

• heat • water/moisture • cooling • camouflage • exposure to predators

Hypothesis:

Microhabitat Hypothesis:

Microhabitat choices are **sun** versus **shade**. Fill in the blanks to complete the following hypothesis:

Frogs in the sun warm up faster than frogs in the shade.

Protocol:

Follow the directions to make your agar frog model.

