

Unit Handout
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Lesson 8: Pond Analysis

Purpose: To analyze data collected from our ponds.

Guiding Question: How do ponds change over time?

Answer the following questions regarding your pond. Higher scores are given to students who demonstrate detailed understanding with complete thoughts.

1. You have observed your pond, past and present, with and without magnification. Describe the changes you have observed.

2. Are the new organisms you observed during this lesson really new to your pond environment? Where do you think they came from?

3. Which stage of succession is your pond in (1-4, see IBI H25, or page 122)? Use a claim-evidence-analysis format to answer this question.

Name

Period

Date

4. What factors do you think may have influenced the daily increase in the number of *Lemna* fronds in your pond? (That is, why do you think some ponds may have more fronds than others? What might affect how the *Lemna* grow?)

5. If *Lemna* reproduced to cover the entire top of your pond--or a real pond--what effects do you think this might have on the pond and its inhabitants?