Assessment: ID: 194

General Learning Outcome Year/Term: 2010 / 2 Assessment Type: Email: jrinehar@eou.edu Name: Rinehart, John Program: Biology Prefix / Course Number: BIOL / 101 High Impact Practice (HIP): Learning Community First Year Experience Co-Curriculum Leadership Training Collaborative Assignments and Projects University Writing Requirement Undergraduate Research Diversity / Global Learning ☐ Service Learning / Community-Based Learning Internship / Practicum / Field Work Performance Portfolio Capstone Project Learning Outcome: Critical Thinking Assessment Method/Tool: Developing Adequate **Proficient** Measurement Scale: 1 - 3 (# of students) (# of students) (# of students) Sample Size: 18 % % % 1. Identifies and explains issues 3 16.7% 0 0.0% 15 83.3% 3 4 22.2% 2. Recognizes contexts and assumptions 16.7% 11 61.1% 3. Acknowledges multiple perspectives 0 0.0% 0 0.0% 18 100.0% 4. Evaluates evidence to reach conclusions 3 16.7% 4 22.2% 11 61.1% 2 76.4% Averages: 2.3 12.5% 11.1% 13.8 (based on 18 student sample size) Benchmark: 85% Institutional benchmark goal for percent of students to meet "Adequate" or "Proficient" levels (This institutional benchmark does not take into account the level of the course and the preparedness of the students in the sample. Results will help the institution understand the learning needs of participating students.)

Percent Achieving Benchmark 87.5% Actual percent of students meeting "Adequate" or "Proficient" levels

Assessment: ID: 194

Question / Prompt / Assignment: (used for the assessment)

Multiple questions. 1. Think of as many of the characteristics of life as you can in 1 minute. 2. Are adult mayflies, which never eat, and neutered dogs, which cannot reproduce, still considered alive? Why/why not? 3. Write down the levels of organization of biological systems. 4. List all the things a potted plant is doing. 5. Now imagine we grind up the plant---which of life's basic charactgeristics can the plant still do? 6. You have just independently arrived at the concept of emergent protperties (etc.--some descriptive stuff). List three emergent properties of the plant. 7. What are the steps in the scientific method?

Commentary / Explanation: (provide context within the course/activity for the question/prompt/assignment)

The assignment expands upon and allows practice with basic concepts presented in the first chapter of the text---scientific method, the properties of living systems.

Data Analysis: What do these results mean?

(what do the results indicate regarding student proficiency in the outcome assessed) Frankly, I think they mean very little. The sample size is insufficient for a statistically valid analysis using parametric statistics, and since it was the very first assignment that students did in the class, many of whom are fresh out of high school or haven't been in school in years, I'm quite surprised that they did as well as they did.

How will you use the results to improve student learning?

How do these results relate to University, Program, and General **Education Learning Outcomes?)**

Closing the Loop: If anything, these results show that the students came in with at least an intuitive sense of some of the basic concepts in biology, which is good. However, it is explicitly stated in the instructions for this work that performance above the standard of 85% do not justify inaction. Therefore, I guess I'll have to come up with some way to make the assignment "better", though I think having students do better than the 85% on the very first assignment they did in the class suggests the assignment is appropriate.

Student Samples (optional): (web links to posted, online files)

NOTE: Student names cannot be used on the samples. Developing Example (web address)

Adequate Example (web address)

Proficient Example (web address)

Assessment: ID: 190

General Learning Outcome Year/Term: 2010 / 2 Assessment Type: Email: jrinehar@eou.edu Name: Rinehart, John Program: Biology Prefix / Course Number: BIOL / 101 High Impact Practice (HIP): Learning Community First Year Experience Co-Curriculum Leadership Training Collaborative Assignments and Projects University Writing Requirement Undergraduate Research Diversity / Global Learning ☐ Service Learning / Community-Based Learning Internship / Practicum / Field Work Performance Portfolio Capstone Project Learning Outcome: Critical Thinking Assessment Method/Tool: Developing Adequate **Proficient** Measurement Scale: 1 - 3 (# of students) (# of students) (# of students) Sample Size: 15 % % % 1. Identifies and explains issues 2 13.3% 8 53.3% 5 33.3% 2 8 5 2. Recognizes contexts and assumptions 13.3% 53.3% 33.3% 3. Acknowledges multiple perspectives 0 0.0% 10 66.7% 5 33.3% 4. Evaluates evidence to reach conclusions 3 20.0% 7 46.7% 5 33.3% 33.3% Averages: 1.8 11.7% 8.3 55.0% 5 (based on <u>15</u> student sample size) Benchmark: 85% Institutional benchmark goal for percent of students to meet "Adequate" or "Proficient" levels (This institutional benchmark does not take into account the level of the course and the preparedness of the students in the sample. Results will help the institution understand the learning needs of participating students.)

Percent Achieving Benchmark 88.3% Actual percent of students meeting "Adequate" or "Proficient" levels

Assessment: ID: 190

Question / Prompt / Assignment: (used for the assessment)

Commentary / Explanation: (provide context within the course/activity for the question/prompt/assignment)

Data Analysis: What do these results mean?
(what do the results indicate regarding student proficiency in the outcome assessed)

Closing the Loop:

How will you use the results to improve student learning?

How do these results relate to University, Program, and General Education Learning Outcomes?)

Student Samples (optional): (web links to posted, online files)

NOTE: Student names cannot be used on the samples.

Developing Example (web address)

Adequate Example (web address)

Proficient Example (web address)