Natural Science

Core Assessment Summary Report Form

Name of Faculty Member Submitting Data:	
Course Title, Course Number, and Section of Course where the core rubrics shown below were applied:	
Natural Science Core Student Learning Objectives and Rubrics	
Please use the following objectives and rubrics to assess student learning in your core course. Place each into one of the categories below. You will need to report how many students fall into each category.	n student
Objective 1: Students will summarize at least two laws, theories, or concepts fundamental to the d under study.	iscipline
Benchmark for Objective 1: It is expected that 75% of the students will achieve Level 2 or higher and 40% will achieve Level 1 or higher.	
Exemplary (4): Exceptional understanding	
• The student accomplishes both additional tasks under <i>Proficient</i> .	
Proficient (3): Effective understanding	
The student completes all the task under <u>Developing</u> and either	
 shows how the law, principle or concept can be applied to a specific case or generalized to a broader range of phenomena, or 	
 notes the problematic areas or the limitations of the theory or concept. 	
Developing (2): Adequate understanding	
 The student correctly states the law, theory or concept being described using appropriate terminology. 	
 The student identifies the phenomena or general situation to which the law, theory, or concept can be applied. 	
The student cites two lines of evidence supporting the law, theory, or concept.	
Novice (1): Unsatisfactory	
• The student fails to accomplish the tasks described under <u>Developing</u> .	
<i>No Competence (0):</i> Shows no ability at even the <i>Novice</i> level.	

In all cases, a 0 score should be assigned when student shows no ability at even the Novice level. If students do not complete assessment tool, they will receive a score of N/A.

N/A: Did not complete assessment tool.

Objective 2: Students will apply fundamental concepts of the science being studied to explain a natural phenomenon. (Given an observation, explain it.)

Benchmark for Objective 2: It is expected that 75% of the students will achieve Level 2 or higher and 40% will achieve Level 1 or higher.

Exemplary (4): Exceptional understanding

• The student accomplishes both additional items listed under *Proficient*.

Proficient (3): Effective understanding

- The student accomplishes all of the tasks under *Developing*, and either
- Identifies the reasons for variation in the data set, or
- Notes problematic areas or limitations in the explanation of the phenomenon.

Developing (2): Adequate understanding

- The student correctly identifies which principles are appropriate for the explanation. (Or is it acceptable to have the question specify this?)
- The student identifies the aspects of the phenomenon that can be explained by the principle or theory.
- The student correctly identifies the causal connections that allow the data to be explained by the concepts.

Novice (1): Unsatisfactory

• The student fails to accomplish the tasks described under <u>Developing</u>.

No Competence (0): Shows no ability at even the <u>Novice</u> level.

N/A: Did not complete assessment tool.

In all cases, a 0 score should be assigned when student shows no ability at even the Novice level. If students do not complete assessment tool, they will receive a score of N/A.

<u>Objective 3</u>: Students will demonstrate through laboratory activities the ability to make measurements and interpret the results.

Benchmark for Objective 3: It is expected that 75% of the students will achieve Level 1.

Level 1: Adequate understanding

The student correctly measures two different features in a material test or experiment and correctly relates the measurements graphically or descriptively.

The student correctly interprets relationships between the observed features.

Level 0: Unsatisfactory

The student fails to accomplish the tasks described under Level 1.

N/A: Did not complete assessment tool.

If students do not complete assessment tool, they will receive a score of N/A.

Please provide a summary description of the activity or assignment to which the faculty approved Natural Science Core rubrics were applied. In the summary, please clearly and specifically identify the course activity or assignment component that addresses each objective (1-3).

Please indicate a plan for action or improvement <u>for each outcome</u>. If your goal was met, please answer "Goal was met, and we are monitoring this outcome."