

7NI, Natural Inquiry

7NI Faculty Evaluator: _____

Semester and Year of Sample: _____

Student Sample #: _____

Title of Essay, Exam or Sample Being Evaluated: _____

Students will be able to use scientific principles and reasoning as a way of knowing the natural world, distinguishing science from non-science.

	minimal	adequate	proficient
1. Student acknowledges the role, nature and effect of science in their lives.	Minimal understanding of role of science in life issues.	Understands the role of science in addressing some contemporary life issue.	Seeks additional scientific understanding as a guide to action in addressing life issues.
2. Students will demonstrate their understanding of scientific reasoning (methods, theories, and peer-reviewed research).	Uses some principles but may not be able to explain their scientific importance.	Applies appropriate principles and is able to distinguish pseudo from real science.	Can assess the validity of findings by evaluating evidence and research design.
3. Students will understand how to formulate research questions and test hypotheses as part of using the scientific method.	Needs help in generating questions and hypotheses.	Can generate questions but has difficulty devising hypotheses to test them.	Can perform a scholarly literature review and generate an experiment to test a simple hypothesis.