



Poop to Power (Scenario B: Learning Experience #2) Opportunities for Student Assessment



Opportunities for ongoing formative assessment are embedded throughout the learning experience in questions that spark class discussions. Student worksheets, journal entries and class presentations also serve as formative assessments as the students work through the learning experience. The summative assessment for each learning experience may be the students' answers to the learning experience essential question, supported by specific data and discoveries the student made while carrying out the assignments in that learning experience. Each student in the team should be involved in the research, writing and presentation of team answers.

The Science Journal

Journaling is an important part of a practicing scientist's day to day work. Student-scientists should reflect, write and draw in their journals or notebooks as they answer questions and plan next steps in the problem solving process. Entries should be labeled with names of team contributors, dates and where the team is in the planning process. An occasional look at journals by the teacher provides an informal assessment of students' progress and their understanding of the content. Sharing the rubric with the students when you introduce the learning experience will help them meet your expectations for quality work.

Suggested Student Journal Rubric, Poop to Power (LE#2)

Criteria	N/A	Missing	Below Expectations	Meets Expectations	Exceeds Expectations
Learning Experience Essential Question					
Items needed for raising a chicken					
Connection between manure disposal and economics of chicken farming					
Reflection about the use of anaerobic digesters to manage manure					



Poop to Power Cross-Curricular Connections

Literacy Connections

- This scenario may be completed, in part, as an English assignment.

Math Connections

- *Poop to Power* (LE #2) begins with more math problems. Students will also use some of their math skills as they design their labs in *What to Do with the Doo Doo*.
- Units of measure are given in metric as well as English measurements. Teachers are encouraged to use metric without conversion, since this is the system of measurement used by all scientists.

