

Name _____

The Egg Osmosis Lab Reflection: Skills of Inquiry, Experimentation, and Design

Framework:

Skills of Inquiry, Experimentation, and Design

All students need to achieve a sufficient level of scientific literacy to enable them to succeed in post-secondary education, in careers, and as contributing members of a democratic society. To achieve this, students need to develop skills that allow them to search out, describe, and explain natural phenomena and designed artifacts. Scientific inquiry, experimentation, and design involve practice (skills) in direct relationship to knowledge; content knowledge and skills are necessary to inquire about the natural and human-made worlds.

Grades 6–8

- Formulate a testable hypothesis.*
- Design and conduct an experiment specifying variables to be changed, controlled, and measured.*
- Select appropriate tools and technology (e.g., calculators, computers, thermometers, meter sticks, balances, graduated cylinders, and microscopes), and make quantitative observations.*
- Present and explain data and findings using multiple representations, including tables, graphs, mathematical and physical models, and demonstrations.*
- Draw conclusions based on data or evidence presented in tables or graphs, and make inferences based on patterns or trends in the data.*
- Communicate procedures and results using appropriate science and technology terminology.*
- Offer explanations of procedures, and critique and revise them.*

Link to student work:

The skills of inquiry, experimentation, and design that I practiced during the Egg Osmosis lab were (select the skills you utilized from the list and describe how you demonstrated these skills) _____

I am proud of this work because _____
