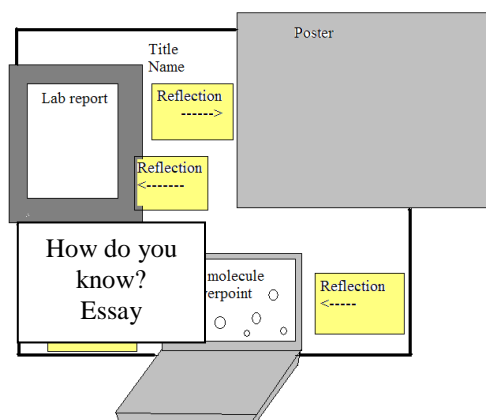


# 9<sup>th</sup>-10<sup>th</sup> Grade Science Portfolio Exhibition

Our essential question has been “How do you know what to believe?” We started by looking at the definition of science and creating our own classification diagrams for the various fields of science. We then undertook a number of experiments and exercises through which we could develop our thinking about how scientists try to answer questions, and we practiced documenting our work in various formats. As this unit comes to a close, it is time for each of you to exhibit your work and think about what you have learned!

## Your challenge is to...

- choose 3 pieces of science work,
- reflect on the quality and the meaning of this work,
- create a visual display exhibiting your work and your reflections, and
- discuss your work in an interview with an outside team of evaluators.



## Your display should include:

- ✓ 3 pieces of work
- ✓ 3 reflections (one for each piece)
- ✓ 1 overall synthesis essay
- ✓ Title and your name
- ✓ **optional:** extra visuals and information that teach the viewer about the science you learned

**Reflections:** For each piece of work, write a one or two paragraph reflection.

- What did you learn by doing this work?
- What learning realms and indicators are demonstrated through this work?
- What challenges did you encounter, and how well did you overcome them?
- How do you rate the quality of your product?
- What would you do differently next time?

**Synthesis Essay:** In a single essay, write your thoughts about the overall meaning of the science work you are exhibiting here. Summarize the science you learned this trimester, and how it all ties together. Using your pieces of work as examples, answer such questions as:

- How do you know what to believe?
- How is scientific truth revealed?
- How do you design a good experiment?
- How do you “prove” or “disprove” something?
- How do you decide upon and communicate your level of confidence or certainty in a scientific explanation?

**Interview:** On Thursday, October 29th, our class will present a display of our work. Each of you will be interviewed by evaluators from Antioch New England graduate school. You will be expected to show them your work and discuss your conceptual synthesis. They will want to see how well you understand the science concepts we studied, how well you can describe the process of doing science, and how deeply you can reflect on strengths and weaknesses of your own work.

## Your grade will be based on:

1. the overall quality of your 3 pieces of work,
2. the graphic quality of your exhibition,
3. the depth of your reflections, and
4. the quality of your interview.