

AP Chemistry Final Project
Lab Demonstrations on
Matter and Its Physical and Chemical Properties

Final Project Grading

This document has information that you will need to know to receive credit for you project.

1 Introduction

Your project grade will be based on information derived from the following sources:

- Research Project (20%)
- Class project presentation (30%)
- Final project demonstration at Beattie Middle School (50%)

2 Research Project (Due: May 15)

You and your partner will research a lab experiment on physical and chemical changes of matter. The research will include a written report of the lab experiment, materials needed, data and results, the conclusion and the lab safety rules and procedures. This must have my approval. There are no duplication of labs so it is on a first come, first served basis.

3 Class Project Demonstration (May 23)

It is very important that you have something working at the demonstration. If you decide to make last minute changes before the demonstration, be certain to save away a copy of a working version of your project. That way, if something goes wrong at the last moment, you will still have something to show.

Get to the lab station well before your demo time to get things setup. If you are not ready when your time slot comes up, we will be forced to move on to the next group, and you will not get credit for a demonstration.

During the demonstration, we will ask you questions about your experiment. Your ability to answer these questions shows mastery of your work. Make sure to demonstrate all lab safety rules and procedures.

4 Final Project Demonstration at Beattie Middle School (May 28)

Our class will be taking a field trip to Beattie Middle School. You will be working with 8th graders in different lab stations. The students will rotate in your station and will have a hands-on experience in learning about matter and its physical and chemical properties.

It is important that you and your partner get all the materials you will need and organize them per stations. There will be 7 stations which means 7 rotations. You do not want to run out of materials so bringing some extra is better. You want to anticipate any spillage or errors that may require you to repeat the experiment. These are fun and safe for the students so bringing more materials will allow them to do it themselves.

5 Project Grading

Your project grade will be based on the rubric given to you. Pay attention to details and make sure you follow the lab report format. The project presentation at Beattie Middle School will be graded by the teacher assigned in the classroom you will be in. You and your partner will be given the rubric so you know what is expected of you. I have no way to grade you if I am not there in the classroom. The score they give you will be your final grade for the portion of the project.

Lab demonstrations to choose from (You may research and do other labs but it has to have my approval):

- Rainbow in Milk
- Traffic Light Demo
- Dry Ice Boo Bubbles
- Energy Tube
- Ocean Acidification
- Hand Boiler
- Oobleck
- Magic Sand
- Slime
- Elephant toothpaste
- Mini-Bell jar for gas law