### Overview
To educate students on the fundamental basics of lab techniques and safety in the chemistry labs.

### Objective
To show students proper attire, how to safely mix chemicals, and how to properly set up their laboratory stations, and to show students how to upload PowerPoints into Slideboom.

### Materials
- Laboratory station
- Goggles
- Chemicals
- Laboratory glassware needed for the experiment
- Computer with internet access

### Procedure
- First, the teacher needs to explain safety in the chemistry lab. Proper attire is imperative for safety, and this needs reiterated repeatedly.
- The proper attire is jeans, closed toe shoes, shirts that cover the chest and shoulder are, hair pulled back into ponytails if long enough, no loosely fitting clothing that could get caught or catch fire, and safety goggles. Safety goggles must be worn at all times in the laboratory.
- Next, students should be told about cleaning their glassware thoroughly because some chemicals can react with residues if not completely cleaned out.
- The students should be given either a handout showing how the different glassware parts are connected and fit together, or a drawing on a chalkboard.
- Safety should always be emphasized throughout the lab.
- The hazards of the chemicals should be posted, whether they be flammable, inhalation hazard, or if they should or should not be mixed. Also, the basics of pouring one chemical into another
should be reviewed.

- Finally, students should be given the packet before hand to read through the procedures and be comfortable with the experiment. Not only is it safer, but they are able to ask questions if they do not understand a procedure.
- After students have been taught about the safeties of the laboratory, they will be divided into groups and told to make a PowerPoint presentation.
  - The students will make their presentations over other techniques of lab safety, the hazards of a given chemical, and a brief summary of a laboratory mishap and what could have been changed to prevent it.
  - When all the PowerPoints are completed, they will be uploaded on to Slideboom so other students can view the presentations.

<table>
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<tr>
<th>Evaluation</th>
<th>The students will be given a short quiz outlining the important parts, like what is the proper attire, what are some of the hazards of the chemicals they will be handling, how the apparatus is set up, and they should be able know key points about the procedure. This should be done with 100% accuracy.</th>
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Links

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