

## Presentations

Sometime during the course of the term, you will need to find a demonstration that you would like to try. It is imperative that you do this early enough in the term so that we have time to get materials that you might need. You will have time around week 7 to get your materials together and probably even try your demo. If you would like to work in a team of two that's ok, but you must then do two demos and each individual will be expected to do part of the speaking and explaining in front of the class.

In weeks 8 and 9 you will present your demo to the class. I will give a grade on the demo based on how well it is done, your explanation of it, and your attendance. When presenting the demo, you must remember who your audience is. Since you are speaking to your peers, make sure you can explain it in terms that they will comprehend. If you are speaking to 1<sup>st</sup> graders, obviously the language you use will be different.

During week 10, you will be giving your demo to some kids (probably between 3<sup>rd</sup> and 5<sup>th</sup> graders at Highlands, Ellsworth, or St. Peter and Paul Elementary school). You can either present your demo there or you can choose one that we have done during the semester. You must remember however that there is no source of gas, hoods, and there may not even be sinks in the classroom. Fire alarms are abundant, so if you make smoke, you will probably cause the alarms to sound. Keep in mind the waste issue. Will you need to bring a waste container or can the end products go down the drain or in the garbage?

We will probably split into 2 or 3 groups for the day and I expect each session will probably run about 30-45 min. Usually, this is enough time for about 8 - 10 demos, but we should probably do some simple ones such as the cornstarch and maybe slime (although that one can get overdone). It is nice if we can finish by making some liquid nitrogen ice cream!

I am making plans with someone here at NCC who is talking with people at the elementary schools to set this up. I will keep you informed as the plans become more settled.

It would be great if you could have a demo in hand by week 5, but it must be no later than week 6. Give me a copy of the demo and make a list of everything including the quantities of materials that you will need. A sample of this is shown below for the first lab day that we met.

### Oobleck, Slime and Alchemy

#### EQUIPMENT, GLASSWARE, AND CHEMICALS PER 10 STUDENT PAIRS

##### Solid Chemicals

1 box	corn starch
50 g	guar gum
250 g	powdered zinc (If old Zn from previous experiments is available, this will work as long as it is crushed/powdered)

##### Solutions

150 mL	4% borax
250 mL	6 M NaOH

##### Equipment & Supplies

10	250 mL plastic beakers
10	scoopulas and glass stirring rods
20	250 mL beakers
10	hotplates
10	tongs
30	pennies – not to be returned
	Food coloring
	Steel wool or ScotchBrite
	Zip-lock bags

##### Waste

1	1 L beaker in the hood labeled "used wet zinc"
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