

Chemistry II AP

Second Semester Exam

"Magic Secrets, Revealed"

For the second semester exam of chemistry you will have to present a demonstration to the class that illustrates a topic discussed in class during the year. The following information will outline how to succeed.

Choosing a demo:

I have a large quantity of demonstrations to choose from. You will be able to thumb through them all and determine if we have the materials to perform the demo of your choice. Once you have determined we have the materials, you can sign up to perform the demo only if no one else has chosen one from the same chemical topic. (i.e. first come, first served)

Doing the demo:

Once you have a demo, you will need to perfect the demonstration of it according to the following theme-magic. You will be a participant in "Magic Secrets, Revealed". You will first demo the trick (make it look like magic) then tell us how it is done. You will need to have a snazzy name for your trick. You will also need to make us believe you are a magician with drama and flare. Yes, you will be graded on your flare. Note: in order to begin practicing your demo, you will need to show a proper prelab.

Revealing the Secret:

After you magic "show", your method of "telling the secret" will be to present the reaction with an explanation on a poster set up as a lab so that it can be displayed and others will be able to follow (sort of like a large size lab report). You will need to have the following categories covered: purpose, materials, safety, procedures with cleanup, chemical concepts covered, explanation of said concepts- the chemistry, and bibliographies of all sources used to help develop trick. All writing needs to be in your own words. The poster needs to be creative and draw us in so it can be displayed after you are done.

Lab Report:

While you are perfecting your magic trick you will need to keep track of everything you do in your lab book, like taking notes of alterations you've made, problems, solutions, data... Use this as your practice area for developing what you will write on your poster. You will also submit a copy of the original work(s) you got your demo from as an attachment to your report. You will also need to site any other sources you used to help create your trick just like you did on your poster. The postlab for this should consist of any calculations of quantities to do the demo, analysis/discussion of the chemical concepts involved (use this as a space for notes for what you will put on the poster) and conclusions of how it worked/didn't, changes you made to make it work better, etc. This lab report is due before you begin your magic trick.

Science Article(s) Presentation:

On the last day of class you will present a science article that you have been following all year. You will present it by giving a brief summary of the article, what has happened during the course of the year, your opinion, and why you think this topic is so important. You do not need to have the article(s) with you, but you do need to know the facts and important dates.

Grading Rubric: (so you know)

Your semester Exam Grade is the average of all of these points plus your science article presentation.

Presentation (i.e. Magic Skills) (50pts)

- _____ flow
- _____ pizzazz
- _____ drama
- _____ does the trick work?

Demo (50pts)

- _____ name of trick
- _____ smoothness of explanation
- _____ knowledge of topic
- _____ does the trick work?

Poster (100pts)

- _____ poster
- _____ legibility
- _____ neatness
- _____ own words
- _____ references
- _____ format
- _____ displayed knowledge
- _____ bibliography(s)

Lab Report (100pts)

- _____ show progression of demo development
- _____ attachments
- _____ bibliography(s)
- _____ prelab
- _____ notes/data/observations
- _____ calculations
- _____ analysis
- _____ conclusions

Calendar for rest of year:

5/10- decompression and begin choosing a demo

5/12 – 5/18 clean up back room, organize chemicals, look for your demo materials, sign up for presentation date

5/22 – 5/24: prep for and perfect demo

5/30 & 6/1: present magic show

6/5: clean up from presentations

6/7: exam day- present science articles, survey, any last bit of clean up

Grading Rubric for:
Topic:

date:

Presentation (i.e. Magic Skills) (50pts)

- _____ flow
- _____ pizzazz
- _____ drama
- _____ does the trick work?

Demo (50pts)

- _____ name of trick
- _____ smoothness of explanation
- _____ knowledge of topic
- _____ does the trick work?

Poster (100pts)

- _____ poster
- _____ legibility
- _____ neatness
- _____ own words
- _____ references
- _____ format
- _____ displayed knowledge
- _____ bibliography(s)

Lab Report (100pts)

- _____ show progression of demo development
- _____ attachments
- _____ bibliography(s)
- _____ prelab
- _____ notes/data/observations
- _____ calculations
- _____ analysis
- _____ conclusions