Chemistry Connections

Podcast and Poster Final Project

Introduction:

The AP Chemistry Final Project is designed to highlight the role that chemistry plays in almost every aspect of our lives, the universe, everything! You'll research a topic of your choosing, record a podcast episode on that topic, and create a poster summarizing your research. Your episode will become part of Season 4 of the Chemistry Connections podcast, posted on the school's podcast network (hvspn.com), and shared via all major podcasting platforms (apple, spotify, etc). The posters will be posted online as "show art" to accompany your episode and live on forever online and in room 406.

Partners:

You may work by yourself OR in pairs for this project. If you work in pairs, whatever grade your work receives will MOST LIKELY be applied to both members of the group. In order for each partner to receive the same grade, your document's Version History must show that each partner has contributed in an approximately equal way. Also be aware that you will have to schedule a time to record a podcast episode with this person.

Project Components / Grading / Schedule:

Portions of this project will be entered as Lab/Project(L/P), Individual Practice(IP) and Assessment(A) grades for MP4. That means that the project will count more than 40% of your overall MP4 grade! Click here for a detailed schedule.

Project Component	Points	When should I work on this component?	Due Date	Late Policy
Show Notes Draft (IP)	10	Thursday 5/23 - Friday 5/24	Friday 5/24 by EOC	*½ credit if late*
Show Notes Final (L/P)	20	Tues 5/28 and Wed 5/29	Wed 5/29 by EOC	*10 % off per day late*
Podcast Recording (A)	100	Record Thurs 5/30 - Mon 6/3 Edit Tues 6/4 - Wed 6/5	Wed 6/5 by EOC	*10 % off per day late*
Research "Poster" (A)	100	Thurs 6/6 - Mon 6/10	Due 6/11 at beginning of class	*10 % off per day late*
Poster Peer Review (IP)	20	Tues 6/11 and Wed 6/12 in class	Wed 6/12 by EOD	*0 if late*

*These due dates and policies are strict and non-negotiable except in extreme circumstances. Talk to me if you think you'll have problems meeting them.

Project Idea Brainstorming

Click here for 100 possible project ideas! or here for an optional planning guide

As soon as you have a topic decided, sign-up for an episode number here.

Podcast Show Notes:

Writing "show notes" will help you prepare for the recording of your episode. As you research information related to your topic, anything you want to share in your episode gets added on the show notes document. A finalized, formatted version will also get posted online at hvspn.com and will look like this.

The Details: You must use the show notes template linked here for your final version. This is the standard way that hvspn.com posts show notes and we need to be consistent with that. You can use a different format for your actual recording session, but the final version has to be completed this way. All font sizes, line spacing, colors, headings, should be left alone. Click the link above and get a copy when you're ready. When complete, submit in OC. Here is a rubric and an example of a high-scoring, final draft show notes!

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You must cite the sources that you used to gather information for your episode. No particular format is necessary, just a list of links that you used. **Wikipedia can not account for more than 50% of your online sources.** There is no minimum or maximum number of sources. For verification that your content was written by a human, **you must use Google Docs and your version history must show development over time.** In other words, the version history can't show all the text copy-pasted in at once. An AI checker may or may not be used to verify that written content is human generated.

Episode Content:

- Must fully explain the topic that is being researched and include any background knowledge.
- The recording should "prove" that you took AP Chemistry. Some examples are given below:
    - Don't just state that human blood serum contains several buffers. Describe what the buffering species are and write the equations to show how they work.
    - Don't just say that a particular blue dye molecule is complex. Describe the types of bonds in the molecule, the bond and angles, the hybridization of the orbitals, etc.
- **Must provide an in-depth look at a minimum of two chemistry topics that are related to your overall research. Include and explain any laws, theories, mechanisms, reactions, equations, calculations and/or important concepts that help to explain the chemistry behind what you are researching.**
- If pictures, diagrams, or tables are necessary, you can include them in the final version of the show notes and reference that in your recording.

Recording Your Episode:

Your podcast episode will introduce your topic and explain the chemistry within/behind that topic in a 7 - 10 minute recording. That episode will be part of Season 3 of the Chemistry Connections Podcast. If you are under the age of 18, I'll need this consent form signed before your episode can be published (there should be an assignment posted in OnCourse for submission of this form). If you do not want your episode published publicly, it is your responsibility to let me know.

The Details: The recording is audio only (no video) and 7-10 minutes in length, and must include the standardized intro and outro segments linked below. All speech and content must be school appropriate. Here is the rubric I'll use to grade the final recording.

Example 1: Very creative topic, good recording, good content, overall nice job. This project earned an 88. See how.
Example 2: Cool topic, good recording, great content, overall very nice job. This project earned a 92. See how.
Example 3: Good topic, could have done more with content, editing/quality issues. This project earned a 73. See how.
Example 4: Informative, professional, light-hearted, great explanation of chemistry. This project earned a 95. See how.

Recording:

- Part of your grade will come from the quality and professionalism of your episode. Here are some tips to review before you record.
- HOW TO DO IT:
    - Record in the media center using one of the podcast rooms or multi-microphone setups. Add the audio to your Google Drive and Import it to WeVideo for editing.
- Other options for recording:
    - Use your Chromebook and https://sodaphonic.com/
    - See Mr. Guise in the MC and borrow a USB mic. Plug it into your Chromebook and record directly into WeVideo.

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Editing:

- THE EASIEST AND BEST WAY TO EDIT IS IN WEVIDEO:
  - The intro and outro audio are included below. Edit them so they overlap with your audio and look like this. STEP-BY-STEP EDITING INSTRUCTIONS CAN BE FOUND HERE!
- Other options for editing:
  - If you recorded into sodaphonic (linked above) you can edit in there too
  - Audacity - this must be done in the Media Center Design Lab - Let Mr. J know if you want to do this
  - Click here for the intro audio if you need it for editing
  - Click here for the outro audio if you need it for editing

Downloading and Submitting Audio:

- Download an .mp3 file from wherever you edited your audio and attach that file to the OnCourse assignment. DO NOT SHARE THE WEVIDEO SHARE LINK.

Research Poster Guidelines

You must also create a research poster as a visual accompaniment to your episode. It will be posted online with your show notes in the form of "show art" for your episode. Click here to check out the show art template (you don't have to create this). Here is the rubric I'll use to grade the poster.

Example 1: Very professional, good quality, well done. This project earned a score of 90. See how.
Example 2: Highly creative, poor quality, not professionally done. This project earned a score of 72. See how.
Example 3: Very well done, very high quality, a little too much text, nice job. This project earned a score of 90. See how.
Example 4: Looks cool but limited use of images and text. This project earned a score of 84. See how.
Example 5: Great topic but not visually organized. This project earned a score of 80. See how.
Example 6: Add foxgloves as a really high scoring example.

The Details (digital version): Use Canva for Education. They have lots of free, pre-made templates or you can start from scratch and make your own. Sign into Canva via Classlink. If you would like to use another service, please clear it with me first. Also, if you make a digital version, you'll have to plan a way to present it for our peer review day. Can you print a large scale version? Bring in a monitor to display it? Something else?

The Details (physical version): Standard poster board size minimum (28"x20" I think)

Additional Guidance:

- Clearly stated title
- Brief and accurate summary of the topic researched
- Brief and accurate summary of two chemistry topics and how they relate to your overall topic
- Pictures, diagrams, tables, graphs, charts, models, etc ARE REQUIRED
- Large blocks of text = not a good idea
- Professional, well organized, easy to understand, limited "white" space, colorful and appealing

Downloading and Submitting:

- If you're making a physical poster, just bring it on the day due date.
- If you're making a digital poster, you'll have to download and submit a copy of it in OC.
  - In Canva, click on Share and then download it as a "PDF Print"

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Poster Peer Review:

At the conclusion of the project, you'll share your poster with the class during a peer review "gallery walk". Peer reviews will not affect the grade your poster gets. Each of you will earn a score based on the quality and thoughtfulness of the feedback you provide to others.

During our final class periods on Tuesday, June 11, you'll each review posters from other classmates. Reviews will be completed using a Google Form. The Google Form will ask you to respond to 4 prompts:

1. Summarize the 2 chemistry topics explained on the poster
2. Ask a question you have about the topic after viewing the poster
3. Give some positive feedback. What did you like?
4. Give some constructive criticism. What needs work?

Your responses to this form will be scored using this rubric.

Recommended Schedule:

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