

Society of Vigilant Historical Seekers

Memorandum

To: All SVHS members

From: The Head Scientist

Regarding: Periodic Broadcasting Station (PBS) lecture series



Our organization has been contracted to instill its knowledge of the History of the Periodic Table, Periodic Law, and chemical bonding in a series of lectures on PBS. There are 18 topics that will be covered in this series. They will be presented in the order outlined on the attached flyer. As luck has it, there are groups in this company that are experts in these areas.

Seeing as the Periodic Broadcasting Station has eighteen 10-minute slots to fill, presenters will have to be very succinct. Because PBS now has commercials, we have been contracted to provide commercials pertaining to the topics. Each session will have a commercial.

To allow each group to coordinate themselves, research and development time has been allotted in the schedule below. This schedule will carry us until the semester exams.

<u>Gold</u>	<u>Activity</u>
11/29	Project outline in class
12/1	Research and Development in the Library
12/5	Flame Test Lab & grade HW
12/7	Ch 5 test, grade lab, in class time for project
12/11	In class work time
12/13-1/5	Lecture Series- class presentations (5 each day)
1/9	Grade all work, begin PT lab
1/11	TEST and finish PT lab
1/15	MLK Day- no school
1/16	grade PT lab, Semester Review, Semester Essay due
1/17-19	Semester Exam, Compare/Contrast Paper Due
1/22	1st day of Second Semester

On the attached papers you will find more details about PBS's requirements for the lecture series. Let me remind you, these need to be top notch presentations because many people will be tuning in.

Head Scientist

Periodic Law: Project Grading Criteria

150 pts TEST GRADE #1:

50 pts Research: A bibliography will be turned in at the time of the presentation. It must have a minimum of 5 sources with no more than two encyclopedias. Your source areas may include books, encyclopedias, journals, newspapers, Internet etc. Your bibliographies must be written correctly. Part of your research grade is your behavior (-5pts each time you are brought to task).

100 pts Presentation: The presentations must be a joint effort. It **MUST** be professional, but interesting (lecture, game show, talk show...). In your presentation, you will discuss periodic trends, exceptions, interesting facts, practical applications and uses, etc. You must be able to answer viewer and head scientist questions. The entire group presentation must last a minimum of 8 minutes but less than 10 minutes, with questions following. At 10 minutes your group will be cut off. Also, note that this is an oral report. Therefore, there will be no reading papers word-for-word (notes are permissible). If your group cannot present on its designated day, all members' grades will be dropped **TWO** letter grades in all areas. You should be ready to go a day in advance- your group may be called on to fill in for a delinquent group. Presentation order is listed at the end of this flyer.

100 pts TEST GRADE #2:

100 pts the Actual Test: You will take the test on the date indicated. At that time 2 science articles and vocabulary for this unit are due along with test corrections from the last unit. You will be able to use your brochures from the presentations on the test, along with your periodic table.

200 pts HOMEWORK GRADES:

100 pts Visual Aides: You must use at least two visual, or auditory, aides when presenting your topic. It must be seeable (hearable) from the back of the room and must pertain to the topic you are discussing. They must be explained and used during the presentation. Quality is more important than quantity (it may be put on display after the presentation has been made). Some possible visual aides include overheads, posters, diagrams, board work, demonstrations, video, PowerPoint, etc. You may **NOT** refer to pictures in a book, unless cleared before your presentation day.

85 pts Brochure for Viewers: You must also create a class handout of important facts to summarize your topic and help students answer test questions and define vocabulary terms. The directions for how to make a brochure are attached. These are flexible guidelines that can be altered with approval. Your group will need to provide a copy for every student in the class and one for the head scientist (40 is a good number). This must be typed, unless it is art or pictures.

15 pts Vocabulary: A typed list of 5 vocabulary words (with definitions) pertaining to your topic must be submitted, on 12/11. These definitions will **NOT** be given as a handout (and should not be on the brochure- just the words so classmates know what they are), so make sure your talk and brochure cover the information to be able to define the words.

Periodic Table Study Guide: You will receive this at a later date and will use it as a study/question guide. It is due when homework is graded.

50 pts PARTICPATION GRADE:

50 pts Peer Evaluation: As you work in the group, you will keep a Group Project Plan to help keep track of each member's job(s). At the end of your presentation day, you will submit this form with a peer evaluation attached. On the peer evaluation, each member will rank how well they think each group member performed as part of the group. The head scientist will also average in her evaluation of the group's performance. This combined evaluation will give each member an overall participation grade.

50 pts LAB GRADE:

50 pt Commercial: Your group will create a unique commercial about your topic or some aspect of it. You will need to “discover” who your sponsor is and what creativity freedoms they give you. It may be live or prerecorded. The commercial must be between 30 sec and 1 min. You may coordinate when your commercial is played so as to run smoothly with your group presentation. Set up, take down and the commercial can be no longer than 1.5 min (we work on a tight schedule). The commercial need not be educational but must be related, somehow, to your topic. The more unique (funny), the better.

Periodic Table Paper Lab: When the presentations are finished each group will receive this lab to complete before semester exams.

To be turned in on 12/11: group vocabulary words, with definitions, any copies/overheads to make (if not, you are responsible for your own).

To be turned in at presentation time: bibliography, visual aides, and brochure. All must be properly labeled with names, period, and topic. Remember, this is an oral report; do NOT submit your scripts or a written report! Turn in a copy of your commercial, if on video, at end of your presentation.

To be turned in at end of presentation period: Group Project Plan, with peer evaluation

Note: For any teaching materials, you can get assistance from the head scientist (ex: copies, possible demonstrations, overheads, videos and the like). When you decide what you need, you will fill in the “planning chart” with the head scientist to reserve your materials.

Presentation Topics:

History of the Periodic Table

Periodic Law

Alkali Metals

Alkaline Earth Metals

Transition Elements

Inner Transition Elements

Carbon

Boron, Nitrogen, and Oxygen Families

Halogen Family

Noble Gas Family

Atomic and Ionic Radii

Electron Affinity

Ionization Energy

Electronegativity

Lewis Dot Structures

Covalent Bonding

Molecular Shapes

Bond/Molecular Polarity

Ionic Bonding

Metallic Bonding

Hydrogen Bonding

Resources we plan to use:

Project format (how will this be presented):

Project Outline (presentation details):

Questions that need to be answered: