

Chapter 5

“The Periodic Table”

5-3

“Periodic Trends” Assignment

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- Each lab group will be assigned a topic from Chapter 5.
- Your team’s task is to learn the subject from textbooks, references, Internet, etc.
- Then your group must create a 10 minute lesson (maximum time) to present this topic to the class.
- You should use MS PowerPoint® as the primary medium, but you are welcome to use posters or whiteboards instead.
- You must email the .ppt file to me in advance or bring it on a CD (NOT on a floppy disk, since we don’t have 3.5 inch drives on our computers).
- You will be given 45 minutes of class time to collaborate, learn and organize the material, but the rest of the preparation must be completed outside of class.
- Presentations will be made on the SECOND class day after the assignment is made.
- Your group’s grade will be based on content, comprehension, collaboration, time, effective use of props and delivery. (See rubric on the next slide or on my SchoolWires page.)
- If you would like a quick tutorial on using PowerPoint, please see me.

“Periodic Trends” Topics

- **Atomic Radius**
- **Ionic Size**
- **Ionization Energy (First)**
- **Ionization Energy (Successive)**
- **Electron Affinity**
- **Electronegativity**

Rubric (“Periodic Trends” Presentation)

CATEGORY	4	3	2	1
Content	Shows a full understanding of the topic; clear and complete presentation.	Shows a good understanding of the topic; weak in only one area (clarity or completeness).	Shows a fair understanding of the topic; weak in both clarity & completeness.	Does not seem to understand the topic very well; unclear and incomplete.
Comprehension	Student is able to accurately answer almost all questions posed by classmates about the topic.	Student is able to accurately answer most questions posed by classmates about the topic.	Student is able to accurately answer a few questions posed by classmates about the topic.	Student is unable to accurately answer questions posed by classmates about the topic.
Collaboration with Peers	Almost always listens to, shares with, and supports the efforts of others in the group. Tries to keep people working well together.	Usually listens to, shares with, and supports the efforts of others in the group. Does not cause "waves" in the group.	Often listens to, shares with, and supports the efforts of others in the group but sometimes is not a good team member.	Rarely listens to, shares with, and supports the efforts of others in the group. Often is not a good team member.
Time-Limit	Presentation is 10 minutes long.	Presentation is 8-9 minutes long.	Presentation is 5-7 minutes long.	Presentation is less than 5 minutes OR MORE THAN 10 minutes long.
Props	Uses several props that show considerable work/creativity and which enhance the presentation.	Student uses 1 prop that shows considerable work/creativity and which enhances the presentation.	Student uses 1 prop which makes the presentation better.	The student uses no props OR the props chosen actually detract from the presentation.
Presentation	Volume and delivery may be heard by class throughout the presentation.	Volume and delivery may be heard class >70% of the time.	Volume and delivery may be heard by class at least 50% of the time.	Volume and delivery is often too soft to be heard by class.