

MEMBER JOB	Group 1A (H)	Group 2A (Be)	Group 3A (B)	Group 4A (C)	Group 5A (N)	Group 6A (O)	Group 7A (F)	Group 8A (He)	Transition Metal (d block)	Inner Transition Elements (f block)
1	Honors Student 1	Honors Student 3	Honors Student 5	Honors Student 7	Honors Student 9	Honors Student 11	Honors Student 13	Honors Student 15	Honors Student 17	Honors Student 19
2	Honors Student 2	Honors Student 4	Honors Student 6	Honors Student 8	Honors Student 10	Honors Student 12	Honors Student 14	Honors Student 16	Honors Student 18	Honors Student 20
3	Regular Student 10	Regular Student 1	Regular Student 2	Regular Student 3	Regular Student 4	Regular Student 5	Regular Student 6	Regular Student 7	Regular Student 8	Regular Student 9

As a GROUP you should pick ONE THEME, ONE -TWO FONTS, ONE - TWO COLORS. Make a shareable presentation so that ALL members have EDITING rights. Make sure the slides are READABLE. Light colors with light colored fonts are not easily read. Avoid putting too many words on one slide.

Arrange your slide presentation in order of members, with each member narrating their slides.

Member ONE: You are responsible for the TITLE slide. Your title should include the FAMILY NAME and ROMAN NUMERAL designation, as well as ALL group member names. For example, the oxygen group is called the “Chalcogens” and they are Group VIA. Not every family has a “special” name and may just be called the first element of that group.

You are also responsible for the following information (No more than 3 additional slides):

- What does your group name mean? (For example: Chalcogens = ore forming)
- What does the Roman Numeral represent? (For **Transition Elements** - What does the “B” represent and why are there so many Roman Numerals. **Inner Transition Elements** - describe the Lanthanide and Actinide Series)
- TRENDS for **boiling point, melting point, electronegativity, radius of atom, ionization energy** and atomic mass. (A trend is a pattern. You can choose to list all the values and then explain the number TREND or you can explain the TREND in general terms like INCREASING and DECREASING).
- Meaning of the words in BOLD above.
- Any exceptions to the TRENDS above? (These usually fall around the stair-step, but can happen in other places with just weird elements.)

Member TWO: You are responsible for the following information (No more than 4 slides).

- Valence electrons for the group/family. Define valence electrons. What tells the number of valence electrons for your group/family. (For **Transition Elements** and **Inner Transition Elements** describe how they vary and give some examples)
- HOW to construct a Lewis Dot structure for an element in your group/family. Include an example from your family.
- GENERAL Noble gas configuration for your family. You can show them all and narrate the generality. (For transition elements you have two column exceptions for electron configurations - include those). (For **Transition Elements** and **Inner Transition Elements** describe how they vary and give some examples.)

Member THREE: You are responsible for the following information (No more than 4 slides).

- Does your family consist of all **metals, metalloids, nonmetals** or a combination of these?
- Define the BOLD terms. Give two characteristics if each term.
- Find FIVE UNUSUAL facts about your family of elements. The facts must include ONE about the family in general and the other FOUR can be related to a specific element. For example: One family of elements are so reactive they must be stored under mineral oil to keep them from reacting with the air around them. And Carbon exists as 3 allotropes - graphite, diamond and Bucky Balls.

All of your slides should be NARRATED. The instructions for doing so can be found at the following link:

<https://www.youtube.com/watch?v=n90rlCDolKY>

Your presentation should STAND ALONE. ANYONE should be able to go through your presentation and become an “expert” on the information I have asked. Be creative. Use pictures. Keep your slides SIMPLE and ENGAGING. Think about presentations you have seen and how hard they are to read when there are lots of words to read. NARRATION helps with this.

This is the BIGGEST mission and carries the most points. If a group member is not doing their part in a timely manner, report them to me. I will talk with them and give them a warning to get the work completed. If they still have not completed the work in the time allotted in our conversation, I will redistribute their assigned work to the remaining members and they will be forced to take a ZERO.