

Below are the key bullets from our CHM 4 handout “*Taking Notes on Textbook Readings*”. After reading the bullets, use the format they describe to actually take notes on the textbook reading which is due for Friday’s CHM 4 class (Section 4.6, *Looking for Patterns: The Periodic Law and the Periodic Table*). When you are done, get together with the rest of your PAL team and answer questions 1 and 2 below.

Format for taking notes while reading your textbook before class

- In your own words write down any subheadings or main ideas.
- In your own words, write the definitions of any new terms.
- In your own words, write a brief summary of what you just read.
- Write down at least 1 question you have after completing your reading.

Questions based on your note taking:

- 1) Trade your brief summary with another student. After reading each other’s summary, take turns giving each other some constructive feedback: Was it in their own words? Did it cover the main points? Did it show an understanding of the reading?
- 2) Go around your PAL team and take turns asking one of the questions that you came up with from the reading. Feel free to take a minute to discuss each question, but the emphasis here isn’t on getting your question answered as much as getting comfortable asking questions in your team.

Questions based on the material you read:

On question 3, see how far your PAL team can get from memory and working together. Only use the textbook if you get stuck or to check your answers.

- 3) Label the blank periodic table on the next page with the following information:
 - Identify the: alkali metals, alkaline earth metals, transition metals, lanthanides, actinides, halogens, and noble gases
 - Indicate where you’d find the: metals, nonmetals, and metalloids
 - Number the: periods and the groups. [Note: In CHM 4, we use the group labels 1-18 rather than 1A-8A, 1B-8B.]

- 4) Taking turns and using a periodic table, go around your PAL team and answer the “Skillbuilder 4.2” question (on page 103 of your textbook). [Note: Answers to the “Skillbuilders” are found at the very end of each chapter (in this case, on page 125).]
- 5) Take turns going around your PAL team answering the questions below. Feel free to look at a periodic table.
 - a. What is the symbol and name of the element in group 16, period 5?
 - b. What is the symbol and name of the alkaline earth metal in period 6?
 - c. What is the symbol and name of the only nonmetal in group 14?
 - d. What is the symbol, name, and group number of the metalloid having the lightest relative mass?
- 6) Learning to make up questions is an important skill to develop. It requires that you reflect on the material and think about what your professor might ask on a test. With the goal of developing this skill, use the space below to write a question similar to the ones in question 5). When you are done, take turns going around your PAL team and share your question, giving the rest of your team the chance to answer.