

# YOU MUST RETURN THE **ORIGINAL WORK** TO RECEIVE CREDIT FOR YOUR REFLECTION

For every larger, more involved assignment or assessment there is an opportunity to reflect on the material covered and your understanding of it. This is a chance to think about your own learning and maybe some misunderstandings you have about specific topics. The purpose of this process is to help ensure that you know the core concepts and correct any misconceptions.

**For each problem or section that you missed or did not receive full credit you will need to do the following to receive credit added to your total score.**

1. Identify and describe ***the concept*** at issue. Look back at your notes or in the text and find information about the concept and share that information. Be specific and give examples. This is NOT the point at which you restate the question!

Examples:

**Wrong-** I need to know the definition of a cation.

**Right-** I need to know the difference between a cation and an anion. The cation forms a positive ion when it loses an electron because there are now more protons than electrons on the atom. The anion gains an electron, therefore there are more electrons than protons on the atom giving it an over negative charge. When sodium loses an electron, it has 11 protons and 10 electrons, leaving an excess of +1 charge.

2. Describe what you **misunderstood** about the concept - ***what was incorrect*** about your answer. Be specific and give examples.

Examples:

**Wrong-** I didn't know the definition of a cation.

**Right-** The problem asked which element would form a +1 ion. I did not understand that when there is an excess of electrons or protons, the value of that excess would determine the charge of the ion. I thought that the value of all ion was just positive.

3. Describe what **new understanding** of the material you now have and present the material in the ***correct*** manner.

Examples:

**Wrong-** I now know the definition of a cation.

**Right-** I am more familiar with how a cation forms and how to determine the charge of an ion. Also, this makes the whole ionic trends on the periodic table more clear. The left side of the periodic table is the only place where it is easy to lose electrons vs the right side where it is easy to gain electrons. Since potassium is on the left side of the periodic table, the correct answer to "Which element forms a cation?" should have been letter "c" – potassium.

This means:

**Wrong-**

- Do not just put the answer.

**Right-**

- Write out the problem.
- Write a complete answer for the problem.
- Show all work for your problems requiring mathematical concepts. Box your answer.
- Rewrite a complete essay answer or lab section.