

Achieving Mastery for learning objective 2A: Have you done the following???

1. Extract information from your text:

BIOCHEMISTRY GUIDED READING (These are not separate from your "reading notes" - they form the BASIS of your notes - address these IN your reading notes, it is what WE want you to focus on)

- **CONTRAST ATOMS VS. MOLECULES**
- **WHAT IS AN ION AND HOW IS IT DIFFERENT THAN AN ATOM?**
- **CONTRAST IONIC, COVALENT, AND HYDROGEN BONDS**
- **WHAT ROLE DO ELECTRONS PLAY IN THE BONDING OF ATOMS TO FORM MOLECULES? (FOCUS ON HOW IONIC AND COVALENT BONDS FORM IN YOUR ANSWER!!)**
- **WHAT IS THE DIFFERENCE BETWEEN A POLAR AND A NONPOLAR MOLECULE?**
- **WATER IS AN UNBELIEVABLE MOLECULE. LIST AND DESCRIBE AT LEAST 3 PROPERTIES THAT MAKE WATER SO SPECIAL!**
- **WHAT IS THE DIFFERENCE BETWEEN A HYDROPHILIC AND A HYDROPHOBIC MOLECULE? USE THE WORDS SOLUBLE AND NONSOLUBLE IN YOUR DESCRIPTION.**

2. Have you completed your concept development wksht?

- Have you come in for help when confused?

3. Have you checked out the "extras" on Edline?

- Have you visited the Essential Study Partner?? (on Edline)
 - Cells - Chemistry - ...pick organic chem., carbohydrates, lipids, & protein sections to explore...
- Video Lessons: <http://bozemanscience.com/chemistry/>
 - **Atoms and the periodic table**, **Drawing Lewis Diagrams**,
Chemical Bonds: covalent or ionic, **Water: a polar molecule**

4. Have you added to your reading notes - made them into reflective, interactive, and dynamic "Learning Notes"?

- Don't just "do the notes".... These are meant for you to revisit and IMPROVE during/after instruction - -- identify what you are still unsure of - then get help!!

5. Have you taken the practice appropriate quizzes and tests from the textbook website?

- Go to "Textbook Website" (under Links tab), click "student edition", choose the appropriate chapter from the text, click on quizzes (Pre-Test and/or Post-Test)
- This will help you gauge your readiness for the proficiency exam