

## Achieving Mastery for learning objective 2C:

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)

**ENZYMES GUIDED READING** sections 5.2, 5.3, 5.4

- What is the first law of thermodynamics and what does it have to do with metabolism?
- What is the second law of thermodynamics and what does it have to do with metabolism?
- What is catalysis?
- Contrast the role of substrates, reactants, and products in chemical reactions.
- Contrast exergonic and endergonic reactions.
- What is activation energy and what does it have to do with chemical reactions?
- What is an enzyme, what do enzymes do, and what are enzymes made of?
- Contrast the difference between an active site and a binding site.
- Explain the "Lock and Key" analogy for enzyme function/specificity
- What is denaturation and why does it affect enzymes?
- What types of factors affect enzyme function?
- Contrast the effect of cofactors, coenzymes, pH, and temperature on enzyme function.

### 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 - Metabolism- ...pick enzymes to explore...
- Video Lessons: <http://bozemanscience.com/chemistry/>
  - Enzymes

### 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