Metabolism & Enzymes





**See** [**https://www.learningctronline.com/courses**](https://www.learningctronline.com/courses) **for Materials and Resources.**

**Topics:** Metabolism & Enzymes

**Objectives:**

* Define types of Metabolism.
* Investigate the structure and function of ATP.
* Investigate the properties and actions of Enzymes in living systems.

TAKE NOTE

1. Test Corrections (due before next week’s class)
2. Notes/Study Guide (1 week)
3. Lab Osmosis in an Egg – Conclusions (Lab Report due 2 days)
4. Homework from Text (1 week)
5. Lab Enzymes (1 week)
6. Quiz Metabolism & Enzymes
7. Week 7 Devotional (<https://www.learningctronline.com/devotional>)

**Text**: Chapter 6: Metabolism & Enzymes pp. 98 – 113

Read the assigned pages in the text.

**Class Notes: PowerPoint or PDF**

**Notes/Study Guide:** Fill in the Study Guide worksheet to understand the class notes.

**Homework**: (1 week)

* Study Questions (at the end of the chapter 6 in the text) #2-3, 5, 8, 10-12, 14-15, 17 (explain q15)
* Use a Word document format as follows:
	+ Heading: Your name, Chapter in Text, Study Questions
	+ Number the appropriate questions you are to answer
	+ Write the answer in a complete sentence use the question as the template (do not copy the question, but reword it into a statement that answers the question).
* Use the same document each week by starting a new “Study Question” for a different chapter on the next page.
* Assignments will be “spot checked” during class or submitted via email.

**Lab**: Enzymes in Pineapple

* Complete the "Enzymes in Pineapple" using the lab worksheet provided. The following video shows the enzyme Bromelain in Pineapple and its activity:

* + <http://somup.com/c3ebqRTGzm> (6:14) Enzyme in Pineapple
* After completing the Lab worksheet, email it to learningctronline@gmail.com for grading.
* Save document into your LAB folder in the Biology folder on your desktop.

**Quiz: Metabolism & Enzymes**

1) the academic integrity policy

* Tests must be completed **WITHOUT** referring to books, notes, the internet, people, or any outside resources.
* A guardian should be proctoring the test as per Learning CTR Online policy: <https://www.learningctronline.com/test-proctor-policy>

2) This test is composed of 15 multiple choice and 2 essay questions.

* The **test must be taken "in one sitting"**, meaning that once you start the test, you must complete it without interruption.
* Take a short break (5 minutes) during the test.

3) There is a **30-minute time limit** on this test. Please have the proctor write the time taken at the top of your answer sheet with their signature or initials.

4) Proctors should NOT be reading the test or engaging students during the test.

5) Do NOT use RED font. Black font is best.

Supplemental Resources (Optional)

1. Vocabulary Review Crossword

<http://somup.com/c3eo0OTCrH> (1:48) **Enzyme Substrate Induced Fit Model**

<https://youtu.be/qgVFkRn8f10> (5:46) The Amoeba Sisters Channel – **Enzymes**

<https://youtu.be/23ZzI6WZS28> (5:51) The Amoeba Sisters Channel – **What is** **ATP?**

<http://somup.com/c3ebqRTGzm> (6:14) Enzyme in Pineapple