

AP Biology
Spring Extra Credit Assignment (50 points maximum)

Choose any two of the Alternatives

All are due by April 16, 2007 BEFORE 8:00 am

Email essay or WebPage to jdenuno@mhs-la.org

- I. Read one of the following books over the Spring Break. Write a 5 paragraph essay that summarizes the book and relates it to a branch of biology. (25 points)
 - *Wonderful Life: The Burgess Shale and the Nature of History* by Stephen J. Gould
 - *Symbiotic Planet: A New Look at Evolution* by Lynn Margulis
 - *Dinosaurs, Spitfires, and Sea Dragons* by Christopher McGowan
 - *In the Shadow of Man* by Jane Goodall
 - *Reason for Hope: A Spiritual Journey* by Jane Goodall
 - *On the Origin of Species* by Charles Darwin
 - *The Double Helix: A Personal Account of the Discovery of the Structure of DNA* by James Watson
 - Any other book on the AP Biology Summer Reading List
<http://www.jdenuno.com/APBiology/sumread.PDF>

- II. Write a descriptive essay (minimum 5 paragraphs) on a work or field experience related to biology. The essay must contain details of work and/or places visited. (10 points)
Can relate to volunteer work in a medical lab or hospital or visit to zoo, botanic garden, science museum, or interesting area or habitat that you visit during the Spring Break.

- III. Virtual Labs (10 points each)
 - A. Transpiration (<http://www.jdenuno.com/APBiology/Labs/TranspirationLab.doc>)
 - B. Animal Behavior—Reaction Time
(<http://www.jdenuno.com/APBiology/Labs/BehaviorLab.doc>)
 - C. BioCourse Labs (<http://www.biocourse.com/mhhe/bcc/domains/biolabs.xsp>)
Note: You will have to generate your own lab report for these. All reports must contain data charts and graphs, discussion, conclusion, and reflection!
 - i. Nerve Transmission
 - ii. Amphibians
 - iii. Reproduction
 - iv. Xylem
 - v. Phloem

Contact Mrs. Nuño in person or by email (jdenuno@mhs-la.org) for specific details.

Enjoy!

