

# ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

Leesville Road High School, Dr. DuBay

## 2010 Summer Assignments

THESE ASSIGNMENTS are due at the end of the summer break. Prepare for a quiz on these assignments and plan to deliver requested materials during the first week of class. If you have any questions about these assignments or plans as they develop for the course, contact Dr. DuBay by email at [dubay.denis@gmail.com](mailto:dubay.denis@gmail.com).

### Part One

Look up “environmental steward” on the web and make note what you can find about the concept. Then read *There’s a Hair in My Dirt* by cartoonist Gary Larson. Write a 300 word report (typed single-spaced, font Times New Roman 12 or equivalent) describing what you learned about environmental stewardship from this book. Be prepared to discuss the book and its insights on the first day of class. The book may be found in the Wake County Public Library collection, Dewey decimal number 741.5. One or more shared copies will be passed around among students (contact Dr. DuBay or LRHS Student Services). Used copies are available at Amazon and Overstock.

### Part Two

Visit the The College Board's A.P. Environmental Science web site at <http://www.collegeboard.com/student/testing/ap/envsci/topic.html?envsci>, for the Topic Outline. Read the listed topics for the course (seven major topics, I to VII, and 31 subtopics listed after the capital letters: eg., I.A. Earth Science Concepts).

Navigate to the Student Companion web site for our textbook, Botkin and Keller's *Environmental Science: Earth as a Living Planet*, 5th Edition:

<http://bcs.wiley.com/he-bcs/Books?action=index&itemId=047148816X&itemType=BKS&bcsId=2054>

- Some of the resources listed on the left side of the page provide unique material for each chapter of the book. Select several different chapters and see which of these resources (from *Biology NewsFinder* to *Regional Essays*) have information specific to each chapter. List the names of those resources.
- Describe similarities and differences between the *Web Quizzes* and *Glossary and Flash Cards* sections for the chapters in the book.
- Read the titles of the textbooks 30 chapters.
- For each of the 31 subtopics from the College Board's APES web site described above, list the chapter(s) from Botkin and Keller's 5<sup>th</sup> edition textbook that likely address that subtopic.

### Part Three

Find five web sites (other than the College Board web site) that contain review material for the A.P. Environmental Science exam or that contain practice multiple choice or free-response questions. List (in a computer file) for each site its web address, the author or sponsor of the site, and a brief description of the review or practice material. We will assemble these web sites into one list that will be made available.

### Part Four

Find three (3) current earth/environmental science news stories (print or online) and write a report for each one in your own words following exactly the format below:

- YOUR NAME and CLASS PERIOD**
- TITLE OF STORY** - Descriptive title
- CITATION** - Use MLA format for literature cited.
- CITED SCIENTIST(S)** - list the names of the scientist(s) cited for their involvement in the story.
- TOPIC** - list major/minor topics from College Board site.
- SUMMARY** - write your own, complete summary of the story, highlighting new discoveries or findings, the hypothesis tested in any experiments (including independent and dependent variables), any critical equipment or specific techniques used in the study. Write your summary as a news report (inverted triangle-most important information at the beginning).
- QUESTIONS** - write important unanswered questions about this story.
- RESPONSE** - write a well-formed response to the story that describes your perspective/opinion.

### Part Five

If possible, please collect the following materials this summer, and clean them before bringing them to class during the first week of school. Thank you very much for your efforts on this task!

- one or two styrofoam egg cartons (base only)
- toilet roll, paper towel, or wrapping paper tubes or shirt boxes – *as many as you can collect, tear into 1” square pieces*
- one pack of lined looseleaf paper (8.5 x 11) **or** one bottle of hand sanitizer **or** one clipboard **or** one hand trowel (for working in garden soil)

Materials **you should plan to bring to class every day** include a scientific calculator and a standard bound composition notebook (NOT a spiral wire bound notebook). You will also need both pens and pencils and clean looseleaf paper (please, no torn edges).

*Thank you. Have a great summer vacation.*