

Name _____

AP Biology

TEXT: *Biology, Campbell and Reece*

7th Edition

Chapter 1

**Scientific Inquiry
Thematic Review Guides**

1. Why do Biology courses build their content around themes and major concepts?

2. List each major theme and briefly describe.

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____
- g. _____
- h. _____
- i. _____
- j. _____

3. What is the primary model for regulation?

4. List and give an example of the three domains.

5. How does biology account for the unity and diversity of life?

6. What is meant by the statement that science is a process?

AP BIOLOGY EXAM CHECKPOINT

Free Response Question

Directions: Answer all questions. Answers must be in essay form. Outline form is NOT acceptable. Labeled diagrams (such as the examples below) may be used to supplement discussion, but in no case will a diagram alone suffice. It is important that you read each question completely before you begin to write.

Feedback loops are the means through which the nervous system uses the endocrine system to regulate body conditions. The presence or absence of hormones in blood brought to the brain by the circulatory system will trigger an attempt to regulate conditions in the body.

- (a) **Describe** (give a detailed account) of each feedback loop.
- (b) **Compare and contrast** the operations of each (similarities and differences).
- (c) **Explain** how each feedback loop functions within a living system (give **ONE** specific example of each feedback loop and thoroughly explain its pathway)

