

Name Suggested answers

Period _____

Ms. Foglia

Date _____

AP: CHAPTER 1

THEMES IN THE STUDY OF LIFE

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

To help students develop a coherent view of
life instead of simply memorizing details.

2. List each major theme and briefly describe.

- a. The cell See p. 27 for desc.
- b. Heritable information
- c. Emergent properties...
- d. Regulation
- e. Interaction w/ environment
- f. Energy + Life
- g. Unity + diversity
- h. Evolution
- i. Structure/Function
- j. Scientific Inquiry
- k. Science, Tech. + Society

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3. What is the primary model for regulation?

Feedback mechanisms - neg + positive

pp 11-12

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

Bacteria - E. coli

Archaea - Extremophiles

Eukarya - plants, animals

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

The process of evolution

illustrates the similarities + diff.

among Earth's life.

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

Science uses various forms of inquiry

to explore life.