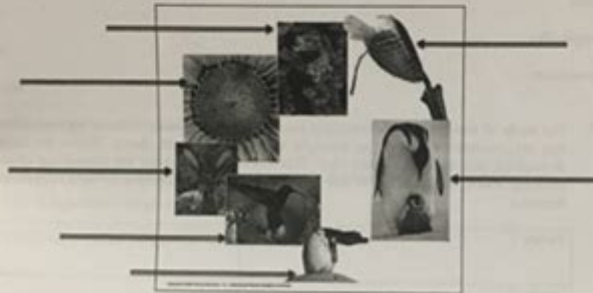


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**Chapter 1: Introduction: Themes in the Study of Life**

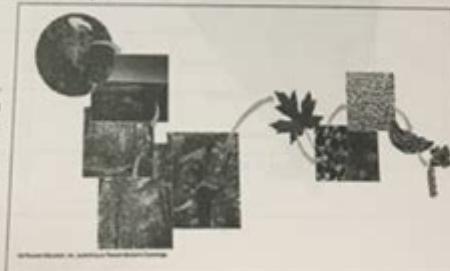
Begin your study of biology this year by reading Chapter 1. It will serve as a reminder about biological concepts that you may have learned in an earlier course and give you an overview of what you will study this year.

1. In the overview, Figure 1.3 recalls many of the properties of life. Label the seven properties illustrated here, and give a *different* example of each.



*Concept 1.1 Themes connect the concepts of biology*

2. What are emergent properties? Give two examples.



3. Life is organized on many scales. Figure 1.4 zooms you in from viewing Earth from space all the way to the level of molecules. As you study this figure, write in a brief definition of each level.

biosphere

ecosystem

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# Chapter 39 Ap Biology Reading Answers

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### Chapter 39 Ap Biology Reading

Guided Reading Chapter 39. Define the following terms: etiolation de-etiolation second messengers Explain the two ways that signaling pathways activate enzymes. Complete the diagram below, and explain what it shows. Define the following terms: tropism phototropism Explain the importance of auxin in plants

### AP Biology

AP Biology Reading Guide Fred and Theresa Holtzclaw Chapter 39: Plant Responses to Internal and External Signals breaking seed dormancy maintaining apical dominance making internodes of grape bunches elongate to obtain larger fruit gravitropism drought tolerance senescence phototropism cell elongation increased cell division Concept 39-3 Responses to light are critical for plant success 23.

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Chapter 39: Plant Responses to Internal and External Signals . Concept 39.1 Signal transduction pathways link signal reception to response . This concept brings together the general ideas on cell communication from Chapter 11 with specific examples of signal transduction in plants. As with animals, plants have receptors that trigger signal transduction pathways when activated. Let's begin ...

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### AP BIOLOGY Active Reading Guide Behavior Chapters 39.3-39 ...

Vocabulary words from the AP Edition of Campbell Biology, Chapter 39. Terms in this set (38) etiolation. the morphological adaptations for growing in darkness. de-etiolation. the changes a plant undergoes when a shoot reaches sunlight. second messengers. small molecules and ions in the cell that amplify the signal and transfer it from the receptor to other proteins to induce response . tropism ...

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pattern of spacing among individuals within the ...

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