

Outcomes/Delineations

Bio-Geography

Unit 3: Ecosystems

Chapter 6: Life Systems

(Pgs. 92 - 110)

SCO 3.1: The student will be expected to demonstrate an understanding that an ecosystem consists of a complex network of organisms, including the following delineations:

- 3.1.1 Define the term ecosystem **(k)**
- 3.1.2 Differentiate the terms food chain and food web. **(k)**
- 3.1.3 Outline the energy flow through an ecosystem. **(k)**

SCO 3.2: The student will be expected to demonstrate an understanding that the relationships among the living and non-living elements of an ecosystem are delicately balanced, including the following delineations:

- 3.2.1 Define the term biological amplification. **(k)**
- 3.2.2 Explain why there are fewer organisms at each trophic level. **(a)**
- 3.2.3 With reference to a food pyramid, explain how pesticides can reach toxic levels for organisms at a higher trophic level. **(a)**
- 3.2.4 Predict the effect on an ecosystem of the introduction of a new organism. **(i)**

SCO 3.3: The student will be expected to examine general interrelationships within and among world ecosystems, including the following delineations:

3.3.1 List the general characteristics of a given ecosystem. **(k)**

3.3.2 Analyze patterns in the distribution of world ecosystems. **(k)**

3.3.3 Predict which kind of ecosystem is likely to result from a stated set of climatic conditions. **(i)**

Chapter 8: The Nature of Resources (Pgs. 132 – 143)

SCO 3.4: The student will be expected to demonstrate an understanding of the characteristics of soil quality and the need to reduce the threat to our soils, including the following delineations:

3.4.1 Describe the factors that affect soil quality. **(k)**

3.4.2 Analyze the quality of a soil in terms of its soil texture. **(a)**

3.4.3 Draw conclusions about global patterns related to soil loss. **(a)**

3.4.4 Assess statements about soil availability. **(i)**