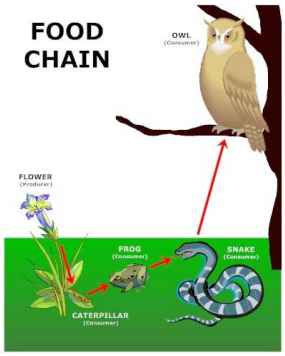
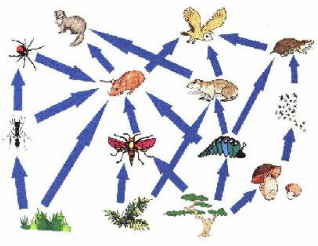
Notes Log: Summarization: Incomplete Science Sample

Topic/Title: Energy in an Ecosystem	**Pages:** 280-284

Main Ideas	Notes
Heterotrophs must eat autotrophs to obtain energy.	• Cannot make own food • Animals and fungi
Autotrophs make their own food through photosynthesis.	• Plants • Convert sunlight and carbon dioxide to energy and oxygen and store it in molecules that can be broken down
Organisms may be classified by their energy roles in the ecosystem.	• Producers – Autotrophs – Produce and store energy – Grasses, shrubs, and trees • Consumers – Heterotrophs – Obtain energy by consuming other organisms – Herbivores, carnivores, and omnivores • Decomposers – Heterotrophs – Obtain energy by breaking down wastes and the remains of dead organisms – Small molecules are returned to the environment – Mold and bacteria
Food chains describe how energy flows from producers to consumers.	
Food webs show overlapping food chains.	

Log continues on the next page.

Main Idea of Section: Energy from the sun is transferred from producers to consumers and decomposers.
Summary

Science TEKS

Grade 8:

(11) Organisms and environments. The student knows that interdependence occurs among living systems and the environment and that human activities can affect these systems. The student is expected to:

(A) describe producer/consumer, predator/prey, and parasite/host relationships as they occur in food webs within marine, freshwater, and terrestrial ecosystems.

SOURCE: TEA, 2009.