

Focus Questions and Vocabulary
Chapters 14 & 15
Honors Biology

Chapter 14

- There are four different definitions of a species in your textbook. Why is it so difficult to devise a single definition of a species? (14.2)
- Provide examples and explain two examples of prezygotic and postzygotic barriers. (14.3)
- Provide an example of both allopatric and sympatric speciation. (14.4 & 14.5)
- What is speciation and what are the different ways it can occur? (14.11)

adaptive radiation

allopatric speciation

biological species concept

ecological species concept

hybrid zone

morphological species

concept

phylogenetic species

concept

postzygotic barrier

prezygotic barrier

punctuated equilibrium

reproductive barrier

reproductive isolation

speciation

species

sympatric speciation

taxonomy

Chapter 15

- Explain Stanley Miller's experiment. (15.2)
- How did continental drift impact evolution? (15.7)
- What is adaptive radiation and how does it increase biodiversity? (15.10)
- Explain the evolution of the complex eye. (15.12)
- How is an evolutionary tree constructed? (15.16)

analogy

cladistics

continental drift

convergent evolution

geologic record

horizontal gene transfer

ingroup

macroevolution

molecular clock

monophyletic

outgroup

parsimony

phylogenetic tree

phylogeny

shared ancestral characters

shared derived characters

taxon