

Chapter 8 Objectives: "Population Dynamics, Evolution, and Human Impacts"

1. Define *species*.
2. Summarize the role of *geographic* and *reproductive isolation* in forming new species.
3. Distinguish between *macroevolution* and *microevolution*.
4. Define *gene pool* and describe the process that increases variability of the gene pool.
5. Describe connections among *mutations*, *adaptations*, and *biological evolution*.
6. List and describe three possible outcomes of *natural selection*.
7. Summarize three *common misconceptions* about *evolution*.
8. Describe the effect *speciation* and *extinction* have on *biodiversity*.
9. Summarize the ways that humans have affected the evolutionary processes; *nature's lessons* that can be adopted as principles for more *sustainable life styles*; and ways that humans can *restore* and *rehabilitate* ecosystems.