

Chapter 13 Focus Questions and Vocabulary  
Honors Biology

**Chapter 13**

- What specific evidence did Charles Darwin use to develop his theory of evolution? (13.1)
- Explain how artificial selection differs from natural selection. (13.2)
- What were Charles Darwin's observations and inferences that allowed him to develop his idea of natural selection? (13.2)
- Describe one example of evolution scientists can observe in short periods of time. (13.3)
- How do fossils provide evidence for evolution? (13.4)
- How can an evolutionary tree be developed? (13.6)
- Explain why the following statement is false: "Individual organisms can evolve." (13.7)
- What factors allow for evolution to happen? (13.8)
- What does Hardy-Weinberg equilibrium allow scientists to do? (13.9-13.10)
- What is antibiotic resistance and how does it relate to natural selection? (13.15)
- Explain why the following statement is false: "Natural selection leads to perfect organisms." (13.17)

**Chapter 13**

adaptation	fossil record	mutation
artificial selection	founder effect	natural selection
biogeography	gene flow	population
bottleneck effect	gene pool	sexual dimorphism
directional selection	genetic drift	sexual selection
disruptive selection	Hardy-Weinberg equilibrium	stabilizing selection
evolution	heterozygote advantage	vestigial organ
extinction	homologous structures	
fitness	microevolution	

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