

AP Environmental Science
Chapter 4: Evolution and Biodiversity

Read all of Chapter 4. Take notes only on pp. 82-89. For the remainder of the chapter (pp. 89-98), answer the following questions. Respond using complete sentences. Feel free to use the back or attach a piece of notebook paper if you run out of room. Due date: _____

1. Define the term **niche** and explain the difference between a species' **fundamental** and **realized niche**. Provide an example.
2. Explain the difference between a **generalist** and a **specialist** species. Describe their niches and give an example of each. Describe the circumstances under which each kind of species might have an advantage.
3. Define **speciation** and explain how this occurs through **geographic** and **reproductive isolation**. Provide an example.
4. Define and give an example of an **endemic species**. Explain why endemic species are at a higher risk for extinction.
5. Define and explain the differences among the following terms: **background extinction**, **mass extinction** and **mass depletion**. Explain why we still have millions of species today if our planet has lived through five mass extinctions.
6. Explain what effect human activities have had on biodiversity. Use the following equation as part of your explanation: **Speciation – extinction = biodiversity**.
7. Explain the difference between **artificial selection** and **genetic engineering**. Briefly summarize the benefits, limitations, or concerns related to each process.

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Linda S. Williams

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