

**ESSENTIAL SKILLS**

- 7-1. *Explain* how overproduction of offspring, competition and individual variation lead to natural selection.
- 7-2. List and describe **five evidences for evolution**.
- 7-3. *Use evidence to describe* how the five **mechanisms of evolution** lead to the evolution of a population.
- 7-4. *Describe and provide an example* of how a change in **environmental conditions** may lead to the formation of new species (**speciation**) or the **extinction** of existing species.

**STUDY GUIDE**

1. Explain how each of the following **relate** to Natural Selection:
  - Genetic Diversity –
  - Overproduction of offspring –
  - Competition –
  - Reproduction –
2. What is meant by Fitness in Biology? List at least 4 different environmental factors that affect a species “fitness” or survival.
3. Why is “survival of the fittest” an incomplete description of natural selection?
4. Why is it that an individual can not evolve; only populations can evolve?
5. Explain how each of the following are used to support evolutionary relationships among species:
  - Fossils –
  - Biogeography –
  - Molecular Comparisons –
  - Anatomical Comparisons –
  - Embryological Development –
6. Why is it important for scientists to use more than one source of evidence to support evolutionary relationships? Give an example of many sources leading to the same conclusions about evolution.

# Topic Evolution Study Guide Summary Students Will

**Todd D. Zakrajsek**



## Topic Evolution Study Guide Summary Students Will:

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