

Skills Worksheet

# Directed Reading

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## Section: Beyond Darwinian Theory

Complete each statement by writing the correct term in the space provided.

1. Only \_\_\_\_\_ and not \_\_\_\_\_ can evolve.
2. Natural selection can act only on \_\_\_\_\_ variation that exists in a population.
3. \_\_\_\_\_ is the formation of new species as a result of evolution.
4. Changes in the genes of populations are known as \_\_\_\_\_, whereas speciation is part of the process of \_\_\_\_\_.
5. Members of a species are closely related and can mate to produce \_\_\_\_\_ offspring.

Read each question, and write your answer in the space provided.

6. Identify the five processes of microevolution.

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7. Compare the effects of mutation and genetic drift on the alleles in a population.

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8. Give an example of coevolution.

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**Directed Reading *continued***

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**In the space provided, explain how the terms in each pair differ in meaning.**

9. speciation, adaptive radiation

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10. gradualism, punctuated equilibrium

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