

Topic 2 Review: Evolution

Topic 2 learning targets

- Differentiate between Lamarck and Darwin’s theories of evolution.
- Explain the different types of evidence for evolution.
- Describe how new species are formed through evolution.

1. Explain the difference between homologous and analogous structures. Which shows divergent evolution? Which shows convergent evolution?

2. List the four types of evidence for evolution.

3. In the space below, compare gradualism and punctuated equilibrium. Be sure to include diagrams with your explanations.

4. What is the biological species concept?

5. In the space below, compare directional selection, disruptive selection, and stabilizing selection. Be sure to include diagrams with your explanations.

6. What are the key components to the process of natural selection?

7. How did Lamarck’s idea of evolution differ from Darwin’s idea?

8. What is an example of a vestigial structure/organ?

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9. In the space below, compare convergent and divergent evolution. Be sure to include diagrams with your explanations.

10. What are the two main causes of speciation?

11. What is artificial selection?

12. What are the three mechanisms of variation and the two mechanisms for change?
