

EVOLUTION UNIT GUIDE ANSWERS

Recall and Review: Use the videos and your textbook to help you answer the following questions.

Section 10.2

1. Describe the difference between a variation and an adaptation.

Variation	Adaptation
<i>differences in the physical traits of an individual from those of other individuals in the group to which it belongs</i>	<i>feature that allows an organism to better survive and reproduce in its environment: an advantage</i>

2. Explain why tortoises of the same species look different

They live in different areas and those organisms possess variations that allow them to be most successful in their particular area.

3. List two things Darwin learned from his trip to the Galapagos.

- I. *Organisms within the same species have a lot of variety; those variations may become an adaptation that allows them to better survive and reproduce.*
- II. *Fossil evidence showed species changing over time.*

Section 10.3

4. State the four main principles of natural selection.

1. *Variation*
2. *Overproduction /Competition*
3. *Adaptation*
4. *Descent with modification*

5. Briefly explain how each of the above principles is necessary for natural selection to occur.

In order for there to be a reason for natural selection, there have to be more individuals present than the environment can support. Because of this, there is competition between the organisms. Those with variations that give them an advantage will be more likely to survive and reproduce. Therefore their descendant will inherit those modifications.

Section 10.4

6. Describe the four sources of evidence for evolution upon which Darwin based his ideas on common ancestry.

- A. *Fossil Record*
- B. *Biogeography*
- C. *Developmental (Embryology)*
- D. *Comparative Anatomy*

7. Why are vestigial structures considered critical evidence of evolution? Give an example of a vestigial structure.

Because they are structures that we still possess in our bodies but yet there is little to no function needed for them anymore. An example is the small pelvis found in snakes and whales.

8. Describe the difference between homologous and analogous structures.

Answers To Evolution And Classification Review Guide

GED Exambusters



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