

# Glencoe Biology

## Chapter 15: Evolution

### Chapter Test Practice

1. Darwin referred to the process of promoting certain traits by breeding members with those traits as \_\_\_\_\_.  
[Need a Hint?](#)
- ☐ A) natural selection  
☐ B) artificial selection  
☐ C) evolution  
☐ D) ancestral breeding
2. A morphological adaptation in which one species resembles another is called \_\_\_\_\_.  
[Need a Hint?](#)
- ☐ A) mimicry  
☐ B) camouflage  
☐ C) vestigial adaptation  
☐ D) fitness
3. Population decline causes an extreme genetic drift called a \_\_\_\_\_.  
[Need a Hint?](#)
- ☐ A) nonrandom mating  
☐ B) founder effect  
☐ C) bottleneck  
☐ D) stabilizing effect
4. Recently evolved traits that do not appear in ancestral fossils are called \_\_\_\_\_.  
[Need a Hint?](#)
- ☐ A) homologous traits  
☐ B) ancestral traits  
☐ C) primitive traits  
☐ D) derived traits
5. This illustration compares amino acid sequences in various kinds of organisms. Which statement is correct based on this information?  
 (14.0K)  
[Need a Hint?](#)
- ☐ A) Humans have no amino acid sequences.  
☐ B) Moths have no amino acid sequences.  
☐ C) Humans share more amino acid sequences with pigs than fish.  
☐ D) Turtles and ducks share no amino acid sequences.
6. What are two main components of natural selection?  
[Need a Hint?](#)
- ☐ A) vestigial structures and camouflage  
☐ B) artificial selection and selective breeding  
☐ C) variation and inheritance  
☐ D) mimicry and artificial selection
7. What evolutionary phenomena has occurred in these fishes?  
 (29.0K)  
[Need a Hint?](#)
- ☐ A) adaptive radiation  
☐ B) coevolution  
☐ C) cloning  
☐ D) dependent evolution
8. What has occurred when fertilization produces a hybrid offspring that cannot develop or reproduce?  
[Need a Hint?](#)
- ☐ A) prezygotic isolation  
☐ B) postzygotic isolation  
☐ C) non-reproductive isolation.  
☐ D) speciation
9. What important observation did Darwin make on the voyage shown here?  
 (16.0K)  
[Need a Hint?](#)
- ☐ A) same species on Galapagos as mainland  
☐ B) Galapagos species differ than mainland species  
☐ C) no life existed on the Galapagos  
☐ D) populations on the Galapagos stayed the same
10. What occurs when average traits benefit a population rather than extreme traits?  
[Need a Hint?](#)
- ☐ A) unnatural selection  
☐ B) directional selection  
☐ C) disruptive selection  
☐ D) stabilizing selection
11. What theory accounts for why populations can be modified over time?  
[Need a Hint?](#)
- ☐ A) natural selection  
☐ B) artificial selection  
☐ C) ancestral modification  
☐ D) fossil theory
12. Which of these does not support the theory of gradualism?  
[Need a Hint?](#)
- ☐ A) Evolution proceeds in small steps.  
☐ B) Evolution is a dynamic process.  
☐ C) Fossil records contain abrupt transitions.  
☐ D) Evolution may take millions of years.
13. Which of these is an example of a non-adaptive evolved characteristic?  
[Need a Hint?](#)
- ☐ A) sharp teeth of carnivores  
☐ B) camouflage color of insects  
☐ C) long legs of wolves  
☐ D) helplessness of human babies
14. Which of these is an example of analogous structures?  
[Need a Hint?](#)
- ☐ A) hawk wings and fish fins  
☐ B) hawk and insect wings  
☐ C) horse legs and insect wings  
☐ D) horse legs and elephant trunks
15. Which statement is true regarding evolution?  
[Need a Hint?](#)
- ☐ A) It describes changes over many generations.  
☐ B) It is the same as natural selection.  
☐ C) It only involves artificial selection.  
☐ D) It occurs within a single generation.

[Check Answers](#)