

Name: \_\_\_\_\_

BIO 345 – Organic Evolution  
20 points

**Video Worksheet**  
***Darwin's Secret Notebooks***

1. When did Darwin's voyage on the *H.M.S. Beagle* begin?
2. What did William Paley argue about the design of living things?
3. What modern, living animals resemble the giant fossils that Darwin found in Uruguay?
4. What did Darwin discover about the distribution of the two species of rheas in Patagonia?
5. What is unusual about the rheas, steamer ducks and penguins in South America?
6. What kinds of fossils did Darwin find high up in the Andes mountains?
7. What did the geologist Charles Lyell argue about the formation of Earth's features?
8. By how far above sea level did the mussel beds rise during the earthquake experienced by Darwin?
9. How old did Darwin suggest the earth might be?

10. Which group of birds from the Galapagos would eventually prove influential in helping Darwin develop his ideas?
  
11. According to Darwin, how did coral atolls form?
  
12. How did the diversity of coral atolls differ above and below the water?
  
13. According to Darwin, how did land animals and plants get to isolated coral islands?
  
14. How did Darwin explain the variation among the mockingbirds from different islands?
  
15. What did an eminent ornithologist [John Gould] conclude about Darwin's mockingbirds?
  
16. What did Thomas Malthus in *On Populations* argue would happen if human populations were left unchecked by war or disease?
  
17. What did Darwin call his theory that traits that give an advantage in survival and reproduction would be more likely to be passed down to the next generation?
  
18. For how long did Darwin work until making his ideas public?