

Name _____

Period _____

AP Biology

Date _____

CHAPTER 23 GUIDED NOTES: THE ORIGIN OF SPECIES

1. Define the term species. _____

2. What conditions are thought to be essential for the formation of distinct species?

3. Define and give an example for each of the following mechanisms that produce reproductive isolation.

a. Prezygotic Mechanisms _____

b. Geographic isolation _____

c. Ecological isolation _____

d. Temporal isolation _____

e. Behavioral isolation _____

f. Mechanical isolation _____

g. Gamete isolation _____

h. Postzygotic Mechanisms _____

i. Hybrid inviability _____

j. Hybrid sterility _____

4. Define these modes of Speciation

a. allopatric speciation _____

b. sympatric speciation _____

5. How do island chains encourage adaptive radiation?

6. How can polyploidy lead to speciation? _____

7. Define and compare gradualism and punctuated equilibrium. _____
