

# BIOLOGY – STUDY GUIDE CHAPTERS 16 & 17

## LOT

REVISION: THESE IS A **LOT** OF QUESTIONS AND EXERCISES ON THIS TOPIC.

1. What is a species?
2. What makes (Hewes is - Why is it so important?)
3. Know how **GENETICS** and the **STRUCTURE** are important to evolution.
4. Know the 2 parts to Lamarck's theory - List and describe each part. Show examples of his theory.
5. Be able to solve Hardy-Weinberg equilibrium problems.
6. List the 5 steps to Darwin's theory of natural selection. Explain each part.
7. Be able to discuss examples of evolution using the 5 steps. For example, show how to explain antibiotic drug:
  - Darwin's theory
  - drug resistant bacteria
  - genetic drift
  - natural and geographical
  - population
8. Know the 3 types of evolution without natural selection: mutations, genetic founder effect, and artificial selection.
9. Know the 3 important natural selection: directional, stabilizing, and disruptive.
10. Know the difference between a peripatric barrier and a parapatric barrier.
11. Know the FIC, genetic and POCF genetic barriers to speciation: habitat isolation, temporal isolation, behavioral isolation, mechanical isolation, gamete isolation, reduced hybrid viability, reduced hybrid fertility, hybrid breakdown.

# Biology Study Guide Chapters 16 And 17

**RJ Shavelson**



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