Name Period Date

SECTION 11.2

NATURAL SELECTION IN POPULATIONS

Study Guide

KEY CONCEPT

Populations, not individuals, evolve.

VOCABULARY	
normal distribution	stabilizing selection
microevolution	disruptive selection
directional selection	

MAIN IDEA: Natural selection acts on a distribution of traits.

1. What is a phenotypic distribution?

2. What can you learn from looking at a phenotypic distribution?

3. In a population that is not undergoing natural selection for a certain trait, what does the phenotypic distribution look like?

In the space provided below, draw the phenotypic distribution for a trait that follows a normal distribution. Be sure to label the axes as well as the mean phenotype.

MAIN IDEA: Natural selection can change the distribution of a trait in one of three ways.

In the table below, take notes about the three patterns of natural selection.

Type of Selection	How It Works	Graph
4. directional selection		
5. stabilizing selection		
6. disruptive selection		

Vocabulary Check

7. The observable change in _____ over time is called microevolution.

8. During _____ selection, the intermediate phenotype is selected for.

9. During _____ selection, both extreme phenotypes are selected for.

10. During _____ selection, the mean phenotype changes.