Study Guide CHAPTER 15 Section

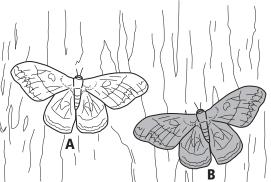
Section 3: Shaping Evolutionary Theory

In your textbook, read about the mechanisms of evolution, speciation, and patterns of evolution.

Write the term or phrase that best completes each statement. Use these choices:

	adaptive radiation founder effect stabilizing selection	genetic drift		disruptive selection sexual selection	
1.	is a change in allelic frequencies in a population that is due to chance.				
2.	removes individuals with average trait values, creating two				
	populations with extreme	e traits.			
3.	The most common form of selection,, removes organisms with extreme expressions of a trait.				
4.	4. When a small sample of the main population settles in a location separated from the main population,				
	the	can occur.			
5.	In	, a species evol	ves into a new species witho	out any barriers that	
	separate the populations.				
6.		will shift populations toward a beneficial but extreme trait value.			
7.	In	, a population	is divided by a barrier, each	population evolves	
	separately, and eventually the two populations cannot successfully interbreed.				
8.		is a change in the size or frequency of a trait based on competition			
	for mates.				
9.	One species will sometimes diversify in a relatively short time into a number of different species in a				
	pattern called	·			
10.	10. The idea that evolution occurred in small steps over millions of years in a speciation model is currently				
	known as				
Ref	er to the figure. Respond to	each statement.			

- **11. Specify** which moth would survive if pollution increases.
- **12**. **State** the name of the phenomenon illustrated.



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