

Name \_\_\_\_\_

## Evolution of Populations WS

In order to be considered a population, a group of organisms must be of the same \_\_\_\_\_ living in the same \_\_\_\_\_. (p. 284)

What is a gene pool?

The only way that entirely new genes or alleles can originate in a population is through \_\_\_\_\_. (p. 286)

Outside forces such as the introduction of a new predator can also change gene pools. Give an example.

What is adaptive radiation? (p. 299)

What environmental condition lead to adaptive radiation in Darwin's finches?

The creation of a new species is referred to as \_\_\_\_\_. (p. 300)

\_\_\_\_\_ is the transfer of alleles from one population to another. (p. 306)

What often causes gene flow?

Run the animation on p. 307. Explain what happens.

What is the name of this process?

Which type of population is most likely to be affected by this process?

The bottleneck effect and founder effect both increase the effect of \_\_\_\_\_  
\_\_\_\_\_. How are they different? (p. 308)

Patterns of Evolution (p. 312)

Name of Pattern	Definition	Example
	Related species become increasingly different from each other	
		Sharks and dolphins have both evolved countershading in the marine environment
Coevolution		

How are gradualism and punctuated equilibrium different? (p. 321)