Evolution

Section 3 Shaping Evolutionary Theory

Ma	iin	Idea	l

Details

Scan Section 3 of the chapter. Write two facts that you discover.

Review Vocabularv

Use your book or dictionary to define allele.

allele

New-Vocabulary

Write the correct vocabulary term in the left column for each definition below.

allele frequencies remain the same unless acted upon by a factor random evolution that occurs in a small, separate subpopulation process of a large population declining in number then rebounding to a large number again

mechanism that operates before fertilization occurs change in the allele frequencies in a population by chance

selection which removes organisms with extreme expressions of a trait

mechanism that operates after fertilization occurs to ensure that resulting hybrid remains infertile

selection which shifts a population toward an extreme trait selection which removes individuals with average traits

speciation in the presence of a barrier

change in a trait based on competition for mates

speciation without any barriers

Name	Date

Section 3 Shaping Evolutionary Theory (continued)

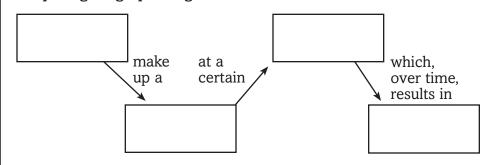
(Main Idea⊃____

Details

Mechanisms of Evolution

I found this information on page _____.

Sequence the steps associated with genetic equilibrium by completing the graphic organizer below.



Identify three ways that genetic equilibrium can be disrupted.

- 1, _____
- 2. _____
 - _____

Reproductive Isolation

I found this information on page ______.

Contrast geographic isolation and reproductive isolation.

Compare natural selection and sexual selection by completing the table.

	Species Changes Based on	Increases Fitness?
Natural selection		
Sexual selection		

Section 3 Shaping Evolutionary Theory (continued)

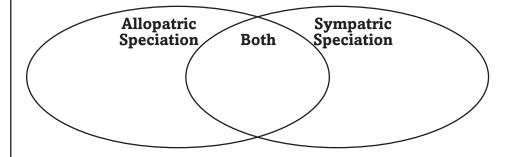
⊂Main Idea⊃_

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Speciation

I found this information on page ______.

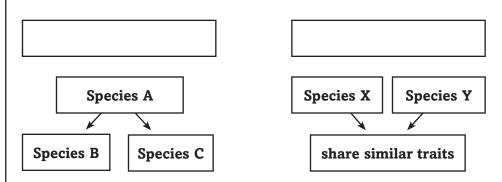
Compare allopatric speciation and sympatric speciation by writing one fact in each segment of the Venn diagram below.



Speciation and Patterns of Evolution

I found this information on page ______.

Label each model as representing divergent evolution or convergent evolution.



Summarize the current thoughts about the rate of speciation by completing the table below.

Gradualism	Punctuated Equilibrium

4	SUMMARIZE	
E	JOMMARIZE	List three possible patterns of evolution and an example of each.