Name _____ Date _____

Evolution

Section 3 Shaping Evolutionary Theory

Main Idea **Details**

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

1. _____

2. _____

Review Vocabulary

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

_____ change in a trait based on competition for mates

_____ speciation in the presence of a barrier

_____ speciation without any barriers

Name _____ Date _____

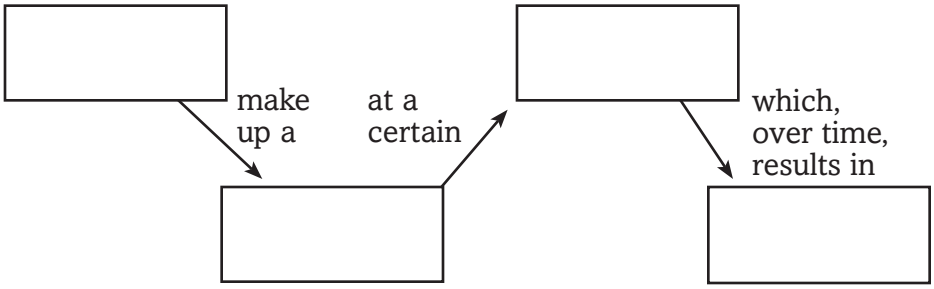
Section 3 Shaping Evolutionary Theory (continued)

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. _____
3. _____

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		

Name _____ **Date** _____

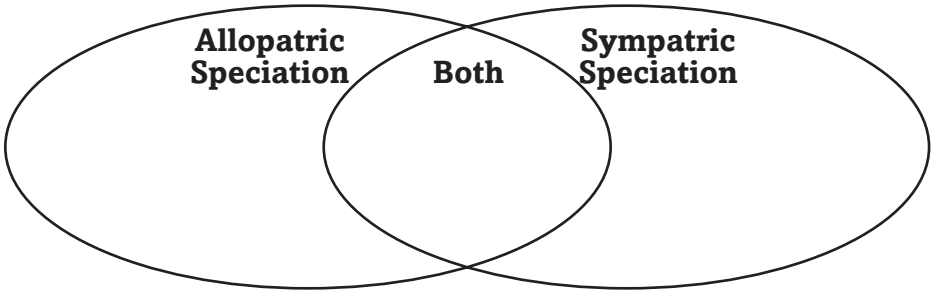
Section 3 Shaping Evolutionary Theory (continued)

Main Idea | **Details**

Speciation

I found this information on page _____.

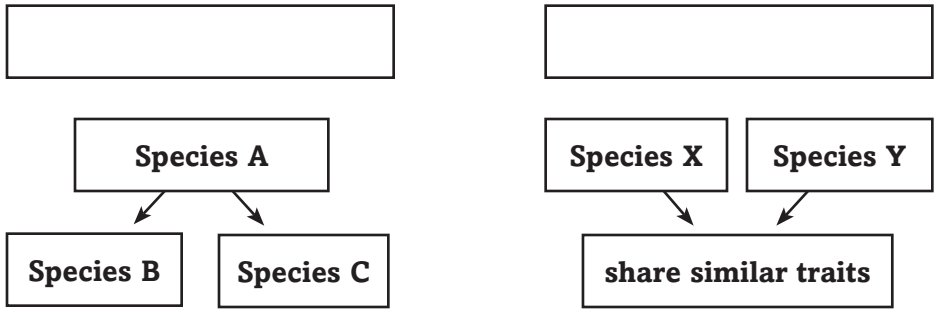
Compare *allopatric speciation and sympatric speciation by writing one fact in each segment of the Venn diagram below.*



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

SUMMARIZE

List three possible patterns of evolution and an example of each.

_____

_____

_____

_____