

# Evolutionary Biology & Ecology

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## 4. Chapter: Unit 03: Darwinian Natural Selection

### 1. Unit 03: Darwinian Natural Selection Questions

#### 4.1.1. A local snail has 3 phenotypes with the heterozygous individuals sh...

Author: Olivia D'Ambrogio

A local snail has 3 phenotypes with the heterozygous individuals showing incomplete dominance. Therefore, individuals with a genotype of BB are brown, Bb are tan, and bb are white. These snails are particularly tasty to the local birds. Their current environment only affords camouflage for the brown and white individuals on brown and white rock tide pools. Therefore, the tan individuals are seen and eaten more easily by the birds. Which graph below describes this example of selective pressure?



Please choose only one answer:

- A - Disruptive
- C - Stabilizing
- B - Disruptive
- A - Directional

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [A local snail has 3 phenotypes with the Olivia D'Ambrogio @Saylor](#)

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#### 4.1.2. A local snail has 3 phenotypes with the heterozygous individuals sh...

Author: Olivia D'Ambrogio

A local snail has 3 phenotypes with the heterozygous individuals showing incomplete dominance. Therefore, individuals with a genotype of BB are brown, Bb are tan, and bb are white. These snails are particularly tasty to the local birds. Due to a recent storm, their current environment only affords camouflage for the tan individuals, because all the brown and white tide pools have been covered by tan sand by the storm. Therefore, the brown and white individuals are seen and eaten more easily by the birds. Which graph below describes this example of selective pressure?



Please choose only one answer:

- B - Directional
- B - Stabilizing
- C - Disruptive
- A - Negative

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#### 4.1.3. A local snail has 3 phenotypes with the heterozygous individuals sh...

Author: Olivia D'Ambrogio

A local snail has 3 phenotypes with the heterozygous individuals showing incomplete dominance. Therefore, individuals with a genotype of BB are brown, Bb are tan, and bb are white. These snails are particularly tasty to the local birds. Due to a recent storm, the species has migrated to a different beach in which the current environment only affords camouflage for the brown individuals. Therefore, the tan and white individuals are seen and eaten more easily by the birds. Which graph below describes this example of selective pressure?



Please choose only one answer:

- A - Directional
- A - Stabilizing
- B - Disruptive
- C - Directional

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#### 4.1.4. Determine if the examples below (I through III) are due to the effe...

Author: Olivia D'Ambrogio

Determine if the examples below (I through III) are due to the effects of the environment on phenotypic plasticity or evolutionary change.

I. An individual Common Ice Plant has the ability to change from C3 photosynthesis to CAM photosynthesis when it becomes stressed by low water or high salinity.

II. When plants become too dense and competition is high, some Aphid species grow wings between generations to enable dispersion, and then the next generation is without wings.

III. Bats are able to fly with wings that are paws with really long fingers and skin stretched between them; one way this could happen is if these finger bones grew at a faster rate than the rest of the body.

Please choose only one answer:

- I = plastic phenotype, II = phenotypic plasticity, III = evolutionary change
- I = plastic phenotype, II = evolutionary change, III = evolutionary change
- I = evolutionary change, II = evolutionary change, III = plastic phenotype
- I = evolutionary change, II = plastic phenotype, III = plastic phenotype

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#### 4.1.5. Due to a recent hurricane, the local seeds available for forage are...

Author: Olivia D'Ambrogio

Due to a recent hurricane, the local seeds available for forage are much smaller than in the past. Local seed eating birds that were adapted to harvest the larger seeds appear to be having a hard time obtaining the smaller seeds. However, those individuals with smaller beaks are finding it easier to get the seeds, and with less competition. According to the theory of natural selection, what changes will likely occur in this population?

Please choose only one answer:

- Over time, individuals will show smaller beaks, because this is more advantageous for the birds.
- The birds with the smaller beaks will most likely be more successful in foraging and therefore breeding, which over time will lead to a population with smaller beak size.
- The birds will choose to pass on the smaller beak size gene to their offspring, because it is now the better phylogeny.
- The next generation of birds will have smaller beaks, because they will be able to forage better.

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Question: [Due to a recent hurricane the local seeds Olivia D @Saylor.org Evolutionary](#)

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#### 4.1.6. Evolutionary synthesis brought together many ideas and data from se...

Author: Olivia D'Ambrogio

Evolutionary synthesis brought together many ideas and data from several areas of biology, particularly ecology, genetics, botany, cytology, systematics, morphology, and paleontology. Dobzhansky & Mayr were most involved in which field?

Please choose only one answer:

- Genetics
- Systematics
- Morphology
- Paleontology

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#### 4.1.7. Female northern cardinals choose males with the brightest red feath...

Author: Olivia D'Ambrogio

Female northern cardinals choose males with the brightest red feathers. It has been shown that these males more frequently feed their young, which allows the mother to be able to raise more offspring. This advantage for sexual selection is best explained by which of the following?

Please choose only one answer:

- Direct benefits
- "Sexy Sons"
- Good Genes Hypothesis
- More than one of the above

Check the answer of this question online at QuizOver.com:

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#### 4.1.8. Fill in the blanks. One of the most distinguishing characteristics ...

Author: Olivia D'Ambrogio

Fill in the blanks. One of the most distinguishing characteristics separating Darwin's theory of natural selection from other theories, particularly Lamarck's, is the idea that \_\_\_\_\_ evolve, while \_\_\_\_\_ do not.

Please choose only one answer:

- species, populations
- populations, individuals
- individuals, populations
- individuals, species

Check the answer of this question online at QuizOver.com:

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#### 4.1.9. Fill in the blanks. Ornate peacock feathers are thought to be a tra...

Author: Olivia D'Ambrogio

Fill in the blanks. Ornate peacock feathers are thought to be a trait that was developed with the function to maximize reproductive success, not necessarily to help the individuals survive. This is an example of \_\_\_\_\_ selection and is solely based on an individual's \_\_\_\_\_.

Please choose only one answer:

- natural, phenotype
- sexual, phenotype
- natural, genotype
- sexual, genotype

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#### 4.1.10. Male elk with large groups of mating females, or harems, tend to ha...

Author: Olivia D'Ambrogio

Male elk with large groups of mating females, or harems, tend to have individually specific phenotypic traits including large antlers and body size. If a male with a smaller body size is seen with a large group of females, then which advantage is most likely in effect for these females to choose this male?

Please choose only one answer:

- Direct benefits
- "Sexy Sons"
- Good Genes Hypothesis
- Red Queen Hypothesis

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#### 4.1.11. Male specimen "A" is 54 years old, has 14% body fat, exercises dail...

Author: Olivia D'Ambrogio

Male specimen "A" is 54 years old, has 14% body fat, exercises daily, eats well, and has 2 children. Male specimen "B" is 50 years old, has 29% body fat, exercises occasionally, eats a typical American diet, and has 3 children. Male specimen "C" had 32% body fat, exercised rarely, did not eat well, and has 5 children. "C" died at age 47. In terms of biological fitness, at this time, which individual is the most fit?

Please choose only one answer:

- Individual "A" because he is the healthiest
- Individual "B" because he is the youngest that is still alive
- Individual "C" because he had the most children
- Individuals "A" & "B" because they lived longer than "C"

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Question: [Male specimen A is 54 years old has 14 Olivia D'Ambrogio @Saylor](#)

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#### 4.1.12. Modern evolutionary synthesis would predict what type of pattern in...

Author: Olivia D'Ambrogio

Modern evolutionary synthesis would predict what type of pattern in the fossils record?

Please choose only one answer:

- A linear progression pattern
- A regular, branching, and directional pattern
- An irregular, branching, and non-directional pattern
- A non-branching and non-directional pattern

Check the answer of this question online at QuizOver.com:

Question: [Modern evolutionary synthesis would predict Olivia D @Saylor.org](#)

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#### 4.1.13. When comparing two populations of a plant species, a biologist observe...

Author: Olivia D'Ambrogio

When comparing two populations of a plant species, a biologist observes that one population's root size is significantly different. Can she conclude that the species are diverging and have different genetic traits? Why, or why not?

Please choose only one answer:

- Yes, her results show significant differences between the two populations
- Yes, she must compare the environmental differences between the populations to determine if the difference is one due to plastic phenotypes of the species or if the difference is genetically based.
- No, significant difference in traits between populations is always genetically based.
- No, she must compare both the genetic and environmental differences between the populations to determine if the difference is one due to plastic phenotypes of the species or if the difference is genetically based.

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#### 4.1.14. While hiking through the mountains during the fall, you notice that...

Author: Olivia D'Ambrogio

While hiking through the mountains during the fall, you notice that many of the elk are grouped with one male to many females, and it appears that those males with more points and larger racks tend to have more females in their group than males with fewer points and smaller racks. Is this an example of natural selection or sexual selection, and why?

Please choose only one answer:

- Natural Selection, because these males are reproducing more, which is adaptive, and their rack size could be influenced by abiotic and/or biotic factors such as forage availability
- Sexual Selection, because these males are reproducing more, which is adaptive, and their rack size could be influenced by abiotic and/or biotic factors such as forage availability
- Natural selection, because if these males mate with each of these females, then the males with more points and larger racks will be reproducing at a greater rate and this is an example of selection that may not necessarily be adaptive and is determined by the individual elk
- Sexual selection, because if these males mate with each of these females, then the males with more points and larger racks will be reproducing at a greater rate and this is an example of selection that may not necessarily be adaptive and is determined by the individual elk

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#### 4.1.15. While on a local tour of undisturbed rainforest in Costa Rica you n...

Author: Olivia D'Ambrogio

While on a local tour of undisturbed rainforest in Costa Rica you notice that the spider monkeys have unusually long arms that help them make their way through the trees with great agility and speed. Determine which explanation below best fits Charles Darwin's theory of natural selection.

Please choose only one answer:

- Over their lifetime, the individual spider monkeys that grew longer arms became faster and then passed this trait onto their offspring
- There was a large catastrophe in the past, and those organisms with longer arms survived and reproduced.
- Over many generations, those individuals that possessed longer arms were more successful in reproducing; therefore, the trait was passed on through the generations.
- Over many generations, individuals grew longer arms and then passed that trait onto their offspring.

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## 4. Chapter: Unit 01: Mendelian Genetics

### 1. Unit 01: Mendelian Genetics Questions

#### 4.1.1. If a white-flowered plant (rr) is crossed with a red-flowered plant...

Author: Olivia D'Ambrogio

If a white-flowered plant (rr) is crossed with a red-flowered plant (RR), then what would be the phenotype of the offspring? Assume flower color shows complete dominance.

Please choose only one answer:

- Red flowers
- rr
- White flowers
- Rr

Check the answer of this question online at QuizOver.com:

Question: [If a white-flowered plant rr is crossed Olivia D'Ambrogio @Saylor](#)

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#### 4.1.2. If a white-flowered plant (rr) is crossed with a red-flowered plant...

Author: Olivia D'Ambrogio

If a white-flowered plant (rr) is crossed with a red-flowered plant (RR), what would be the genotype of the offspring?

Please choose only one answer:

- Red flowers
- rr
- White flowers
- Rr

Check the answer of this question online at QuizOver.com:

Question: [If a white-flowered plant rr is crossed Olivia D'Ambrogio @Saylor](#)

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#### 4.1.3. If an individual expresses a phenotype associated with a dominant g...

Author: Olivia D'Ambrogio

If an individual expresses a phenotype associated with a dominant gene, does he or she have a recessive allele for that gene?

Please choose only one answer:

- Yes
- No
- You cannot tell unless you know how many offspring are produced.
- You cannot tell unless you know the genotype.

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Question: [If an individual expresses a phenotype Olivia D'Ambrogio @Saylor](#)

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#### 4.1.4. If Dad has black hair (B) with green eyes (G), and Mom has blond ha...

Author: Olivia D'Ambrogio

If Dad has black hair (B) with green eyes (G), and Mom has blond hair (b) with grey eyes (g), and their children are 1/4 with blond hair and grey eyes, 1/4 with black hair and green eyes, 1/4 with black hair with grey eyes, and 1/4 with blond hair and green eyes, then what are the genotypes of Mom and Dad? Assume that hair and eye color show complete dominance.

Please choose only one answer:

- BBGG and bbgg
- BbGG and Bbgg
- BbGg and bbgg
- BbGg and BbGg

Check the answer of this question online at QuizOver.com:

Question: [If Dad has black hair B with green eyes Olivia D'Ambrogio @Saylor](#)

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#### 4.1.5. If Mom can roll her tongue (R) but Dad cannot (r), and their childr...

Author: Olivia D'Ambrogio

If Mom can roll her tongue (R) but Dad cannot (r), and their children are 1/2 tongue rollers and 1/2 not, then what are the genotypes of Mom and Dad? Assume tongue rolling shows complete dominance.

Please choose only one answer:

- RR and rr
- Rr and rr
- RR and Rr
- Rr and Rr

Check the answer of this question online at QuizOver.com:

Question: [If Mom can roll her tongue R but Dad cannot Olivia D @Saylor.org](#)

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4.1.6. If two red-flowered plants (Rr) are crossed, then what would be the...

Author: Olivia D'Ambrogio

If two red-flowered plants (Rr) are crossed, then what would be the genotypic ratio of the offspring?

Please choose only one answer:

- 1:2:1 (1/4 RR, 1/2 Rr, 1/4 rr)
- 1:3 (1/4 RR, 3/4 Rr)
- 1:2:1 (1/4 Rr, 1/2 rr, 1/4 RR)
- 1:3 (1/4 rr, 3/4 Rr)

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#### 4.1.7. If two red-flowered plants (Rr) are crossed, then what would be the...

Author: Olivia D'Ambrogio

If two red-flowered plants (Rr) are crossed, then what would be the phenotypic ratio of the offspring? Assume flower color shows complete dominance.

Please choose only one answer:

- 1:2:1 (1/4 red, 1/2 pink, 1/4 white)
- 1:3 (1/4 red, 3/4 white)
- 1:2:1 (1/4 pink, 1/2 white, 1/4 red)
- 1:3 (1/4 white, 3/4 red)

Check the answer of this question online at QuizOver.com:

Question: [If two red-flowered plants Rr are crossed Olivia D @Saylor.org Evolutionary](#)

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4.1.8. If you cross a tall plant with white flowers (TTbb) with a short pl...

Author: Olivia D'Ambrogio

If you cross a tall plant with white flowers (TTbb) with a short plant with blue flowers (ttBB), then what proportion of the offspring will be short with white flowers? Assume plant height and flower color show complete dominance.

Please choose only one answer:

- 1/2
- 1/4
- 3/4
- None

Check the answer of this question online at QuizOver.com:

Question: [If you cross a tall plant with white Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-you-cross-a-tall-plant-with-white-olivia-d-ambrogio-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-you-cross-a-tall-plant-with-white-olivia-d-ambrogio-saylor?pdf=1505>

4.1.9. If you cross a tall plant with white flowers (Ttbb) with a short pl...

Author: Olivia D'Ambrogio

If you cross a tall plant with white flowers (Ttbb) with a short plant with blue flowers (ttBb), what proportion of the offspring will be short with white flowers? Assume plant height and flower color show complete dominance.

Please choose only one answer:

- 1/2
- 1/4
- 3/4
- None

Check the answer of this question online at QuizOver.com:

Question: [If you cross a tall plant with white Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-you-cross-a-tall-plant-with-white-olivia-d-ambrogi-4043934?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-you-cross-a-tall-plant-with-white-olivia-d-ambrogi-4043934?pdf=1505>

#### 4.1.10. If you want to breed a new batch of blue-winged flies (b) with whit...

Author: Olivia D'Ambrogio

If you want to breed a new batch of blue-winged flies (b) with white eyes (g), which of the following should you cross? Assume wing and eye color show complete dominance.

Please choose only one answer:

- A blue-winged fly (b) with green eyes (G) and a blue-winged fly (b) with white eyes (g)
- A black-winged fly (B) with white eyes (g) and a blue-winged fly (b) with green eyes (G)
- Two blue-winged flies (b) with white eyes (g)
- Two black-winged flies (B) with green eyes (G)

Check the answer of this question online at QuizOver.com:

Question: [If you want to breed a new batch of blue Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-you-want-to-breed-a-new-batch-of-blue-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-you-want-to-breed-a-new-batch-of-blue-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.11. If you want to breed a new batch of leafy plants (L) with yellow fl...

Author: Olivia D'Ambrogio

If you want to breed a new batch of leafy plants (L) with yellow flowers (o), which of the following should you cross? Assume leafiness and flower color show complete dominance.

Please choose only one answer:

- An unleafed plant (l) with yellow flowers (o) and a leafy plant (L) with yellow flowers (o)
- A leafy plant (L) with orange flowers (O) and a leafy plant (L) with yellow flowers (o)
- Two unleafed plants (l) with yellow flowers (o)
- Two leafy plants (L) with orange flowers (O)

Check the answer of this question online at QuizOver.com:

Question: [If you want to breed a new batch of leafy Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/if-you-want-to-breed-a-new-batch-of-leafy-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/if-you-want-to-breed-a-new-batch-of-leafy-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.12. What does it mean to have a heterozygous genotype?

Author: Olivia D'Ambrogio

What does it mean to have a heterozygous genotype?

Please choose only one answer:

- The genotype and the phenotype match.
- The genotype contains 3 alleles.
- The individual has two different alleles for the gene
- The individual has two of the same allele for the gene.

Check the answer of this question online at QuizOver.com:

Question: [What does it mean to have a heterozygous Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-does-it-mean-to-have-a-heterozygous-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-does-it-mean-to-have-a-heterozygous-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.13. What would be the phenotypic ratio in the F2 generation of a homozy...

Author: Olivia D'Ambrogio

What would be the phenotypic ratio in the F2 generation of a homozygous dominant (red flower) and homozygous recessive (white flower) cross? Assume flower color shows complete dominance.

Please choose only one answer:

- 1:2:1 (1/4 red, 1/2 pink, 1/4 white)
- 1:3 (1/4 red, 3/4 white)
- 1:2:1 (1/4 pink, 1/2 white, 1/4 red)
- 1:3 (1/4 white, 3/4 red)

Check the answer of this question online at QuizOver.com:

Question: [What would be the phenotypic ratio in the Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/what-would-be-the-phenotypic-ratio-in-the-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/what-would-be-the-phenotypic-ratio-in-the-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.14. Which of the following indicates a homozygous dominant genotype?

Author: Olivia D'Ambrogio

Which of the following indicates a homozygous dominant genotype?

Please choose only one answer:

- RR
- rr
- Rr
- rR

Check the answer of this question online at QuizOver.com:

Question: [Which of the following indicates a homozygous Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-indicates-a-homozygous-olivia-d-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-indicates-a-homozygous-olivia-d-saylor?pdf=1505>

#### 4.1.15. Which of the following indicates a homozygous recessive genotype?

Author: Olivia D'Ambrogio

Which of the following indicates a homozygous recessive genotype?

Please choose only one answer:

- RR
- rr
- Rr
- rR

Check the answer of this question online at QuizOver.com:

Question: [Which of the following indicates a homozygous Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-indicates-a-homozygous-olivia--4044403?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-indicates-a-homozygous-olivia--4044403?pdf=1505>

## 4. Chapter: Unit 06: Phylogeny and Taxonomy

### 1. Unit 06: Phylogeny and Taxonomy Questions

#### 4.1.1. Miller-Urey's experiment simulated hypothetical conditions present ...

Author: Olivia D'Ambrogio

Miller-Urey's experiment simulated hypothetical conditions present on early earth. The experiment used which of the following elements?

Please choose only one answer:

- Water, methane, ammonia, and hydrogen
- Water, methane, ammonia, and oxygen
- Water, carbon dioxide, ammonia, and oxygen
- Water, nitrogen, methane, and hydrogen

Check the answer of this question online at QuizOver.com:

Question: [Miller-Urey's experiment simulated Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-miller-urey-s-experiment-simulated-olivia-d-ambrogio-saylor-o?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-miller-urey-s-experiment-simulated-olivia-d-ambrogio-saylor-o?pdf=1505>

#### 4.1.2. Modern day scientists hypothesize one element was missing in the at...

Author: Olivia D'Ambrogio

Modern day scientists hypothesize one element was missing in the atmosphere of early earth. What was this element?

Please choose only one answer:

- Nitrogen
- Oxygen
- Ammonia
- Methane

Check the answer of this question online at QuizOver.com:

Question: [Modern day scientists hypothesize one Olivia D'Ambrogio @Saylor Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/modern-day-scientists-hypothesize-one-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/modern-day-scientists-hypothesize-one-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

### 4.1.3. The classes of Mammalia and Aves belong to which taxa?

Author: Olivia D'Ambrogio

The classes of Mammalia and Aves belong to which taxa?

Please choose only one answer:

- Paraphyletic taxa
- Monophyletic taxa
- Holophyletic taxa
- Polyphyletic taxa

Check the answer of this question online at QuizOver.com:

Question: [The classes of Mammalia and Aves belong Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-classes-of-mammalia-and-aves-belong-olivia-d-ambrogio-say?pdf=1505>

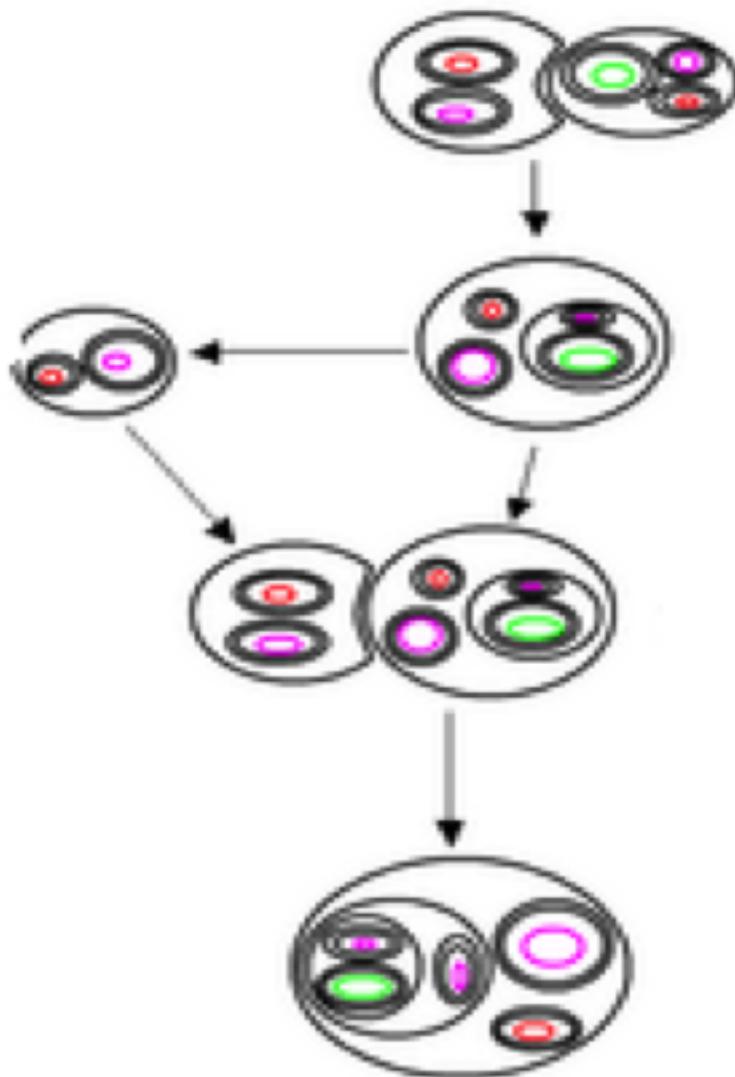
Interactive Question:

<http://www.quizover.com/question/question-the-classes-of-mammalia-and-aves-belong-olivia-d-ambrogio-say?pdf=1505>

4.1.4. The diagram below is a representation of which of the following?

Author: Olivia D'Ambrogio

The diagram below is a representation of which of the following?



Please choose only one answer:

- Endosymbiosis
- Primary endosymbiosis
- Secondary endosymbiosis
- Phagocytosis

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The diagram below is a representation of Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-diagram-below-is-a-representation-of-olivia-d-ambrogio-sa?pdf=1505>

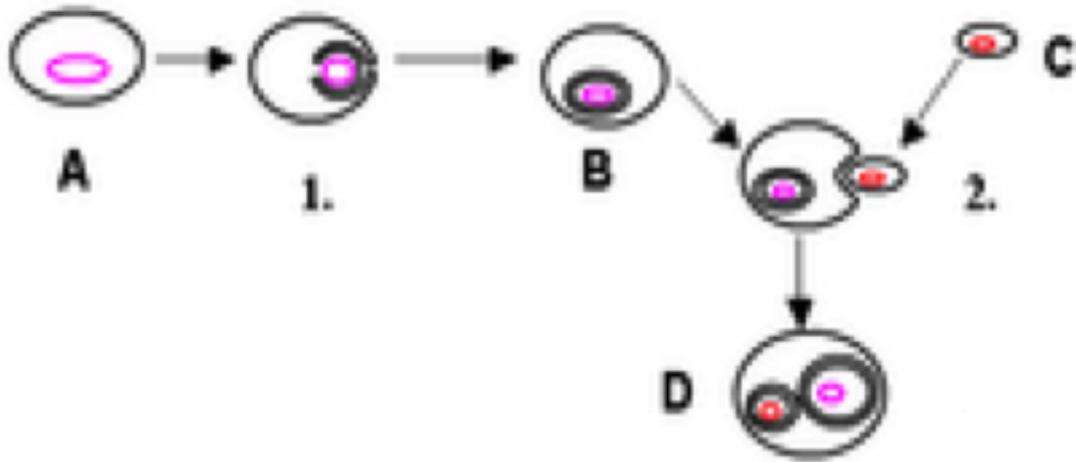
Interactive Question:

<http://www.quizover.com/question/question-the-diagram-below-is-a-representation-of-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.5. The diagram below represents which of the following?

Author: Olivia D'Ambrogio

The diagram below represents which of the following?



Please choose only one answer:

- Phagocytosis
- Endosymbiotic theory
- Endocytosis of aerobic bacteria
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [The diagram below represents which of the Olivia D @Saylor.org Evolutionary](http://www.quizover.com/question/the-diagram-below-represents-which-of-the-olivia-d-saylor-org-evolutio?pdf=1505)

Flashcards:

<http://www.quizover.com/flashcards/the-diagram-below-represents-which-of-the-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/the-diagram-below-represents-which-of-the-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.6. The fungi kingdom would include

Author: Olivia D'Ambrogio

The fungi kingdom would include

Please choose only one answer:

- Round, spiral bacteria
- Euglena and Paramecium
- Yeast and mushroom
- Streptococcus and Staphylococcus

Check the answer of this question online at QuizOver.com:

Question: [The fungi kingdom would include Olivia D'Ambrogio @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/the-fungi-kingdom-would-include-olivia-d-ambrogio-saylor-org-evolution?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/the-fungi-kingdom-would-include-olivia-d-ambrogio-saylor-org-evolution?pdf=1505>

#### 4.1.7. What is characteristic of Monerans distinguishes them from other or...

Author: Olivia D'Ambrogio

What is characteristic of Monerans distinguishes them from other organisms?

Please choose only one answer:

- Monerans are unicellular.
- Monerans have nuclei without cell membrane.
- Some Monerans move with the help of flagella.
- Both A and C

Check the answer of this question online at QuizOver.com:

Question: [What is characteristic of Monerans Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-characteristic-of-monerans-olivia-d-ambrogio-saylor-o?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-characteristic-of-monerans-olivia-d-ambrogio-saylor-o?pdf=1505>

#### 4.1.8. Which of the following facts regarding Big Bang theory is false?

Author: Olivia D'Ambrogio

Which of the following facts regarding Big Bang theory is false?

Please choose only one answer:

- The Big Bang theory explains how Earth was formed.
- The Big Bang theory explains how denser atoms (metals) came into existence.
- The Big Bang theory explains creation of light atoms (Helium, Lithium, Beryllium).
- The Big Bang theory explains formation of stars.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following facts regarding Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-facts-regarding-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-facts-regarding-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.9. Which of the following is a correct definition of paraphyly?

Author: Olivia D'Ambrogio

Which of the following is a correct definition of paraphyly?

Please choose only one answer:

- A taxon which includes all descendants of a particular ancestor
- A taxon that contains the last common ancestor but not all decedents
- A taxon which is characterized by one or more homoplasies
- A clade characterized by one or more autapomorphies

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is a correct Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-a-correct-olivia-d-ambrogio-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-a-correct-olivia-d-ambrogio-saylor?pdf=1505>

#### 4.1.10. Which of the following is an example of analogous character?

Author: Olivia D'Ambrogio

Which of the following is an example of analogous character?

Please choose only one answer:

- Four limbs of tetrapods
- Fin of a shark and dolphin
- Fins of shark and bony fish
- Skeletal components of vertebrates

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is an example of Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-an-example-of-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-an-example-of-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.11. Which of the following is an example of homologous character?

Author: Olivia D'Ambrogio

Which of the following is an example of homologous character?

Please choose only one answer:

- Four limbs of tetrapods
- Wings of birds and bats
- Bird wings and mosquito wings
- Camera eye of vertebrate and cephalopod

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is an example of Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-an-example-of-olivia-d-ambr-4045603?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-an-example-of-olivia-d-ambr-4045603?pdf=1505>

#### 4.1.12. Which of the following statements about a cladogram is true?

Author: Olivia D'Ambrogio

Which of the following statements about a cladogram is true?

Please choose only one answer:

- A cladogram shows relation between organisms.
- A cladogram is an evolutionary tree.
- A cladogram illustrates the ancestors of a particular animal.
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements about Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-statements-about-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-statements-about-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.13. Which of the following statements about the science of cladistics i...

Author: Olivia D'Ambrogio

Which of the following statements about the science of cladistics is true?

Please choose only one answer:

- The science of cladistics is based on synapomorphies.
- The science of cladistics analyzes evolutionary relationships.
- The science of cladistics bases its outcome on a cladogram.
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements about Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-statements-about-olivia-d-ambr-4045788?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-statements-about-olivia-d-ambr-4045788?pdf=1505>

#### 4.1.14. Which of the following statements regarding anagenesis is correct?

Author: Olivia D'Ambrogio

Which of the following statements regarding anagenesis is correct?

Please choose only one answer:

- Anagenesis is the transformation of one ancestral species into more than one descendant species.
- Anagenesis does not involve the extinction of the parental species.
- Anagenesis involves the extinction of the older ancestral species.
- Only via branching evolution can species increase in number.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements regarding Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-statements-regarding-olivia-d-saylor-o?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-statements-regarding-olivia-d-saylor-o?pdf=1505>

#### 4.1.15. Who first proposed endosymbiotic theory?

Author: Olivia D'Ambrogio

Who first proposed endosymbiotic theory?

Please choose only one answer:

- Konstantin Mereschkowski
- Andreas Schimper
- Lynn Margulis
- Dorion Sagan

Check the answer of this question online at QuizOver.com:

Question: [Who first proposed endosymbiotic theory Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-who-first-proposed-endosymbiotic-theory-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-who-first-proposed-endosymbiotic-theory-olivia-d-ambrogio-say?pdf=1505>

## 4. Chapter: Unit 07: Population Ecology

### 1. Unit 07: Population Ecology Questions

#### 4.1.1. Following the 1883 volcanic eruption of Krakatoa on the Indonesian ...

Author: Olivia D'Ambrogio

Following the 1883 volcanic eruption of Krakatoa on the Indonesian Island Rakata, the island was completely devoid of life. Within a few years, however, some small herbaceous plants began to colonize the remaining rock and soil. This is an example of which of the following?

Please choose only one answer:

- Secondary succession
- Primary succession
- A climax community
- Facilitation

Check the answer of this question online at QuizOver.com:

Question: [Following the 1883 volcanic eruption of Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-following-the-1883-volcanic-eruption-of-olivia-d-ambrogio-say?pdf=1505>

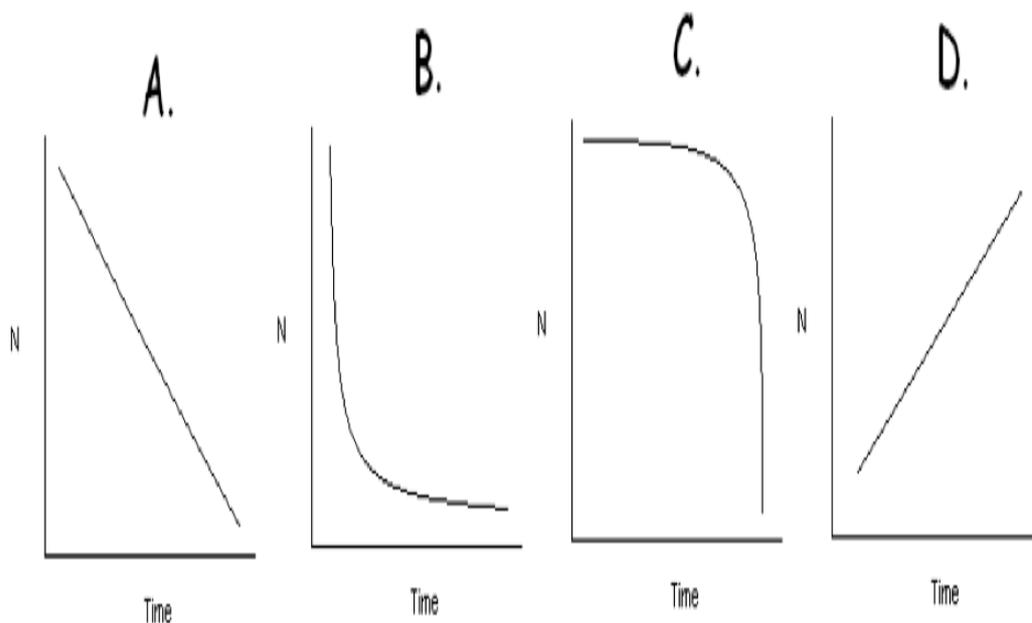
Interactive Question:

<http://www.quizover.com/question/question-following-the-1883-volcanic-eruption-of-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.2. If most individuals of a species die when they are old (post-reprod...

Author: Olivia D'Ambrogio

If most individuals of a species die when they are old (post-reproductive), then that species population will exhibit which type of survivorship curve?



Please choose only one answer:

- A
- B
- C
- D

Check the answer of this question online at QuizOver.com:

Question: [If most individuals of a species die when Olivia D @Saylor.org Evolutionary](http://www.quizover.com/question/if-most-individuals-of-a-species-die-when-olivia-d-saylor-org-evolutio?pdf=1505)

Flashcards:

<http://www.quizover.com/flashcards/if-most-individuals-of-a-species-die-when-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/if-most-individuals-of-a-species-die-when-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.3. In 1998, a fire in Yellowstone burned 793,880 acres of the park. Wh...

Author: Olivia D'Ambrogio

In 1998, a fire in Yellowstone burned 793,880 acres of the park. While many of the organisms within the park were killed or displaced, recovery from the fire began immediately and existing sprouts and seeds re-colonized the area. This is an example of which of the following?

Please choose only one answer:

- Secondary succession
- Primary succession
- A climax community
- Facilitation

Check the answer of this question online at QuizOver.com:

Question: [In 1998 a fire in Yellowstone burned 793 Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-1998-a-fire-in-yellowstone-burned-793-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-1998-a-fire-in-yellowstone-burned-793-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.4. In a deciduous forest found in the Eastern US, an 80 year old oak t...

Author: Olivia D'Ambrogio

In a deciduous forest found in the Eastern US, an 80 year old oak tree would be known as which of the following?

Please choose only one answer:

- Secondary species
- Pioneer species
- Climax species
- Primary species

Check the answer of this question online at QuizOver.com:

Question: [In a deciduous forest found in the Eastern Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/in-a-deciduous-forest-found-in-the-eastern-olivia-d-saylor-org-evoluti?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/in-a-deciduous-forest-found-in-the-eastern-olivia-d-saylor-org-evoluti?pdf=1505>

#### 4.1.5. Many orchids are epiphytes that live on the bark of tropical trees....

Author: Olivia D'Ambrogio

Many orchids are epiphytes that live on the bark of tropical trees. They do not tap into the vascular system of the trees or harm the tree, but they collect the nutrient-rich water that drips through the canopy of the tree. This is an example of which of the following?

Please choose only one answer:

- Mimicry
- Commensalism
- Parasitism
- Mutualism

Check the answer of this question online at QuizOver.com:

Question: [Many orchids are epiphytes that live on Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-many-orchids-are-epiphytes-that-live-on-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-many-orchids-are-epiphytes-that-live-on-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.6. Meerkat Manor was a television program on Animal Planet International...

Author: Olivia D'Ambrogio

Meerkat Manor was a television program on Animal Planet International. The series told the story of the Whiskers, one of over a dozen families of meerkats in the Kalahari Desert being studied as part of the Kalahari Meerkat Project, a long-term field study into the ecological causes and evolutionary consequences of the cooperative nature of meerkats. The field biologists studying this group of animals would be considered which of the following?

Please choose only one answer:

- Species ecologists
- Population ecologists
- Community ecologists
- Ecosystem ecologists

Check the answer of this question online at QuizOver.com:

Question: [Meerkat Manor was a television program on Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/meerkat-manor-was-a-television-program-on-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/meerkat-manor-was-a-television-program-on-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.7. Most populations with unlimited resources will grow exponentially. ...

Author: Olivia D'Ambrogio

Most populations with unlimited resources will grow exponentially. However, due to limiting factors such as amount of food, nesting material, or a buildup of toxins results in a stabilization of the population. This stabilization is known as which of the following?

Please choose only one answer:

- Population growth
- Population density
- Carrying capacity
- Biotic potential

Check the answer of this question online at QuizOver.com:

Question: [Most populations with unlimited resources Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/most-populations-with-unlimited-resources-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/most-populations-with-unlimited-resources-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.8. Some of the first animal species to colonize Mt. St. Helen's after ...

Author: Olivia D'Ambrogio

Some of the first animal species to colonize Mt. St. Helen's after its eruption were spiders. They "ballooned" in on silk threads. These first species are examples of

Please choose only one answer:

- Secondary species
- Pioneer species
- Climax species
- Primary species

Check the answer of this question online at QuizOver.com:

Question: [Some of the first animal species to colonize Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-some-of-the-first-animal-species-to-colonize-olivia-d-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-some-of-the-first-animal-species-to-colonize-olivia-d-saylor?pdf=1505>

#### 4.1.9. The California thrasher lives in the chaparral habitat. This habita...

Author: Olivia D'Ambrogio

The California thrasher lives in the chaparral habitat. This habitat is characterized as a shrubland plant community. The thrasher behavior is closely related to the habitat's characteristics. This bird breeds, nests, and feeds in the underbrush. Additionally, it avoids predation by moving from plant to plant. This usage of the resources of its environment is called which of the following?

Please choose only one answer:

- Niche
- Community
- Survivorship curve
- Cohort

Check the answer of this question online at QuizOver.com:

Question: [The California thrasher lives in the Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-california-thrasher-lives-in-the-olivia-d-ambrogio-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-california-thrasher-lives-in-the-olivia-d-ambrogio-saylor?pdf=1505>

#### 4.1.10. The Daintree Rainforest in Queensland Australia is composed of plan...

Author: Olivia D'Ambrogio

The Daintree Rainforest in Queensland Australia is composed of plants and animals that are best suited to the climate conditions of the area. The plants include mature trees and shrubs. If a tree were to be removed from the area, similar species to the one removed would compete for resources (e.g. space, light, etc.). This is an example of which of the following?

Please choose only one answer:

- Secondary succession
- Primary succession
- A climax community
- Facilitation

Check the answer of this question online at QuizOver.com:

Question: [The Daintree Rainforest in Queensland Olivia D'Ambrogio @Saylor Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/the-daintree-rainforest-in-queensland-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/the-daintree-rainforest-in-queensland-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

#### 4.1.11. The swollen-thorn Acacia tree lacks chemical compounds that could a...

Author: Olivia D'Ambrogio

The swollen-thorn Acacia tree lacks chemical compounds that could aid in thwarting predators. However, the Acacia has large thorns that house ants. These ants attack browsing mammals and prune back competing plants. This relationship between the ants and the Acacia tree is an example of which of the following?

Please choose only one answer:

- A predator/prey relationship
- Mutualistic symbiosis
- Parasitism
- Producer/consumer relationship

Check the answer of this question online at QuizOver.com:

Question: [The swollen-thorn Acacia tree lacks chemical Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-swollen-thorn-acacia-tree-lacks-chemical-olivia-d-saylor?pdf=1505>

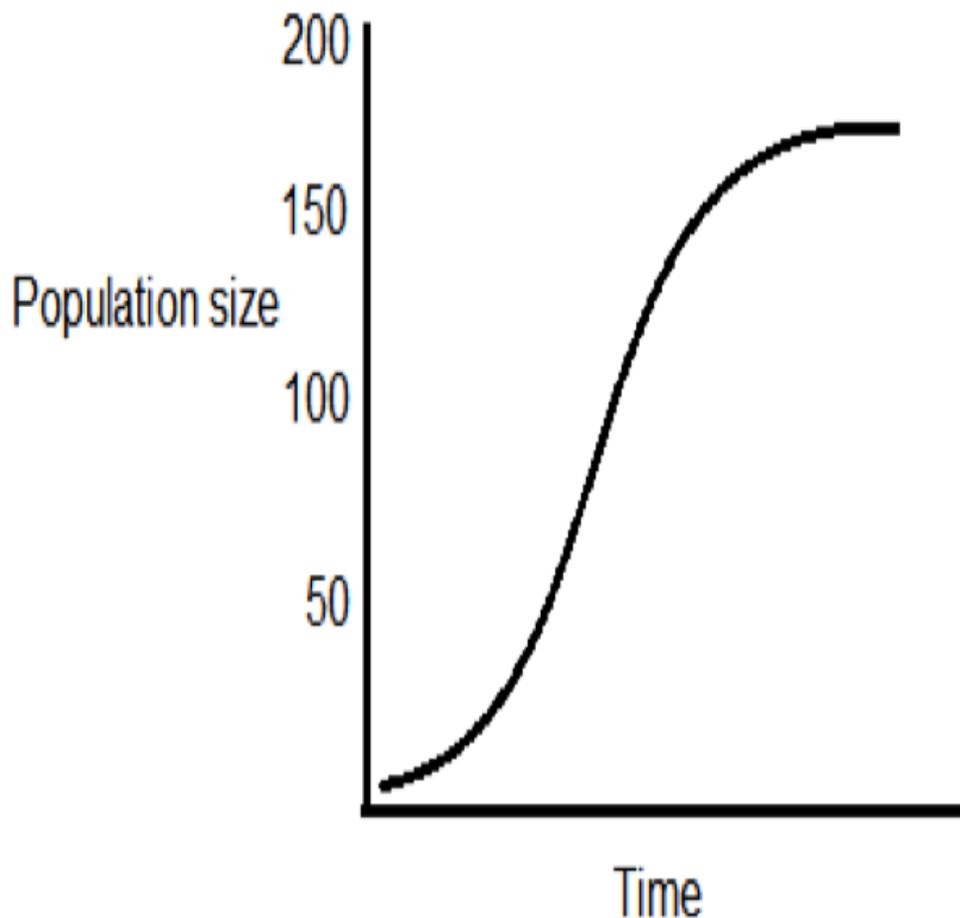
Interactive Question:

<http://www.quizover.com/question/question-the-swollen-thorn-acacia-tree-lacks-chemical-olivia-d-saylor?pdf=1505>

#### 4.1.12. What is the carrying capacity for the population graphed below?

Author: Olivia D'Ambrogio

What is the carrying capacity for the population graphed below?



Please choose only one answer:

- 25 individuals
- 100 individuals
- 175 individuals
- 200 individuals

Check the answer of this question online at QuizOver.com:

Question: [What is the carrying capacity for the Olivia D'Ambrogio @Saylor Evolutionary](http://www.quizover.com/flashcards/what-is-the-carrying-capacity-for-the-olivia-d-ambrogio-saylor-evoluti?pdf=1505)

Flashcards:

<http://www.quizover.com/flashcards/what-is-the-carrying-capacity-for-the-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

Interactive Question:



#### 4.1.13. Which of the following affects population growth?

Author: Olivia D'Ambrogio

Which of the following affects population growth?

Please choose only one answer:

- Amount of available resources
- Birth and death rates
- Life history factors
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Which of the following affects population Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-affects-population-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-affects-population-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.14. Which of the following is a difference between a food chain and a f...

Author: Olivia D'Ambrogio

Which of the following is a difference between a food chain and a food web?

Please choose only one answer:

- Food chains involve only plants, while food webs involve both plants and animals.
- Food chains involve only animals, while food webs involve both plants and animals.
- Food chains involve plants and animals, but food webs involve only animals.
- Food chains are linear and food webs are complex.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is a difference Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-a-difference-olivia-d-ambrogio-sayl?pdf=1505>

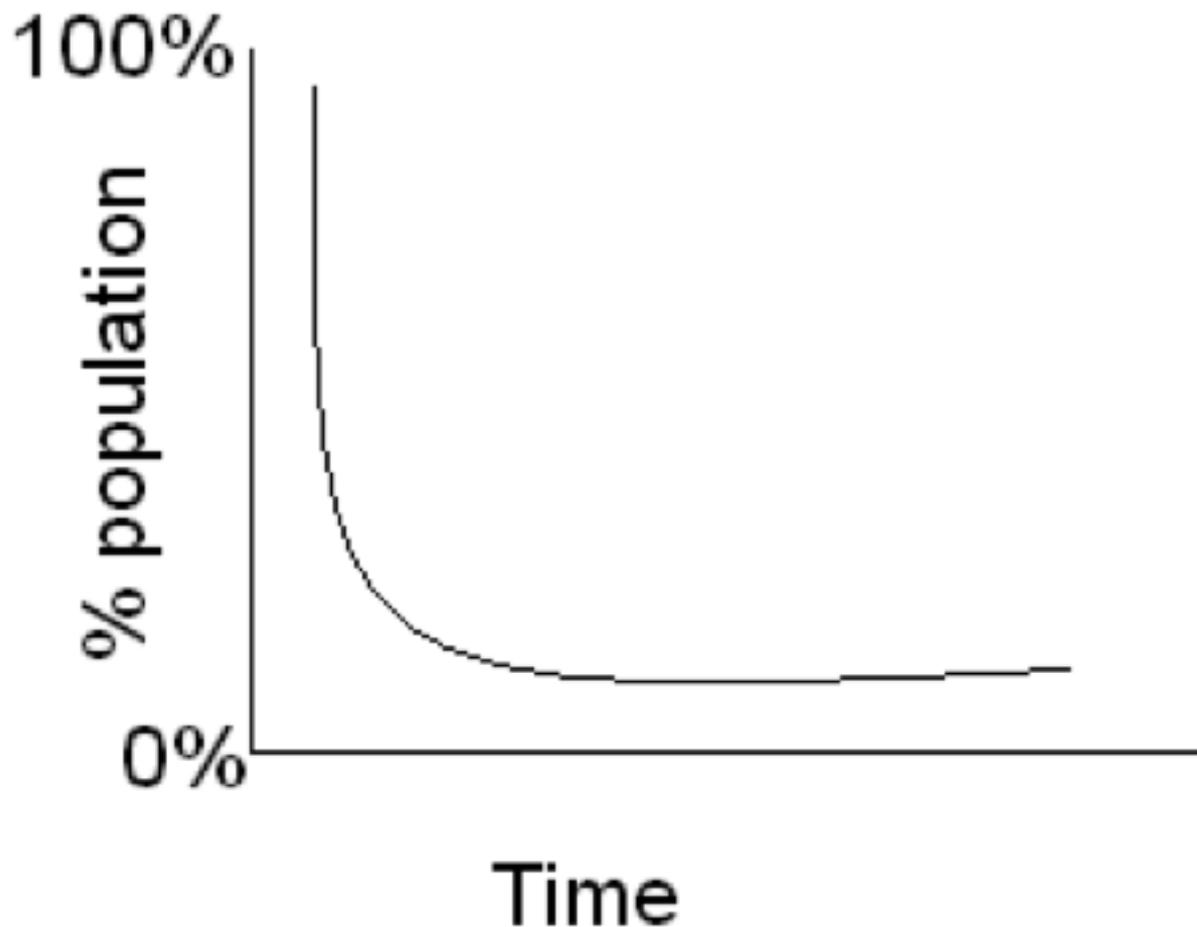
Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-a-difference-olivia-d-ambrogio-sayl?pdf=1505>

4.1.15. Which of the following species would have a survivorship curve like...

Author: Olivia D'Ambrogio

Which of the following species would have a survivorship curve like the one pictured below?



Please choose only one answer:

- Humans
- Elephants
- Bears
- Fire flies

Check the answer of this question online at QuizOver.com:

Question: [Which of the following species would have Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-species-would-have-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:



## 4. Chapter: Unit 08: Ecosystems

### 1. Unit 08: Ecosystems Questions

#### 4.1.1. A research scientist finds a new species in the Brazilian rain fore...

Author: Olivia D'Ambrogio

A research scientist finds a new species in the Brazilian rain forest. She notes that though the species has a "trunk-like" stalk and flattened structures similar to leaves, the organism is brown in color and lacks chlorophyll. Additionally, the organism sends out hair like structures that externally digest the plant matter around it. The researchers categorize the new organism as which of the following?

Please choose only one answer:

- A producer
- An autotroph
- A heterotroph
- A manufacturer

Check the answer of this question online at QuizOver.com:

Question: [A research scientist finds a new species Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-research-scientist-finds-a-new-species-olivia-d-ambrogio-sa?pdf=1505>

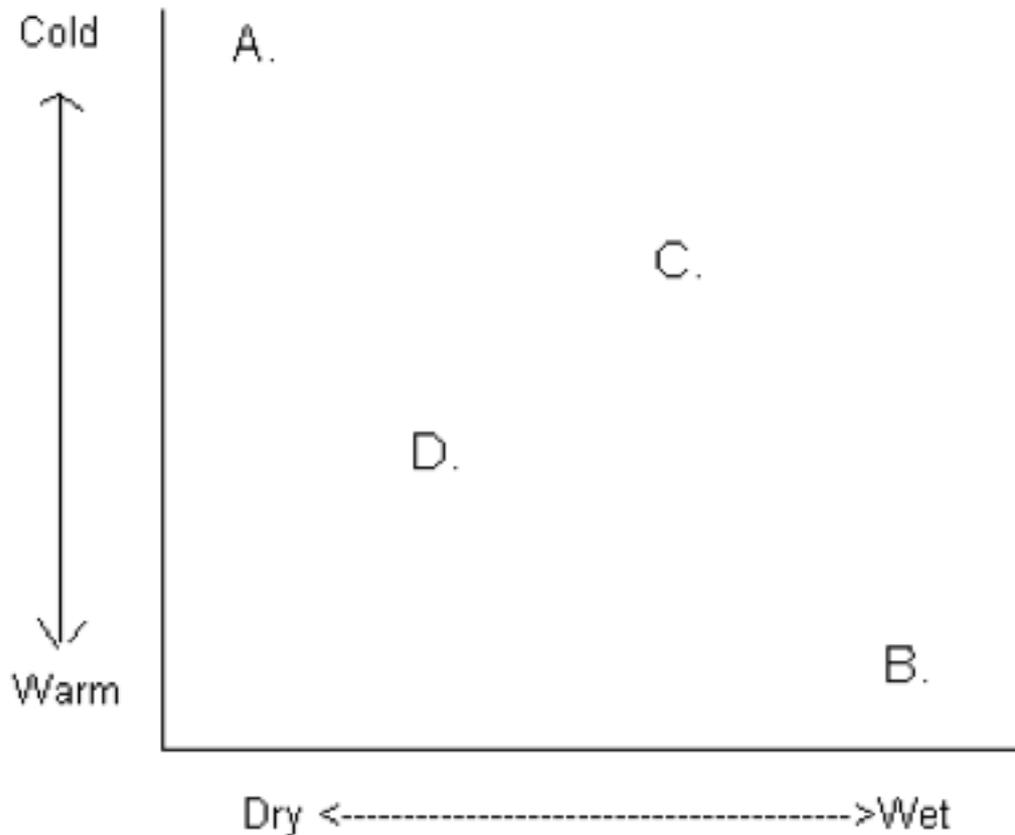
Interactive Question:

<http://www.quizover.com/question/question-a-research-scientist-finds-a-new-species-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.2. Based on your knowledge of biomes, which letter would BEST represen...

Author: Olivia D'Ambrogio

Based on your knowledge of biomes, which letter would BEST represent a desert on the graph below?



Please choose only one answer:

- A
- B
- C
- D

Check the answer of this question online at QuizOver.com:

Question: [Based on your knowledge of biomes which Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-your-knowledge-of-biomes-which-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-your-knowledge-of-biomes-which-olivia-d-ambrogio-say?pdf=1505>



### 4.1.3. Estuaries serve which of the following purposes?

Author: Olivia D'Ambrogio

Estuaries serve which of the following purposes?

Please choose only one answer:

- To act as basins where rivers empty to the sea
- As nurseries for marine life
- To ensure flood control
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Estuaries serve which of the following Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-estuaries-serve-which-of-the-following-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-estuaries-serve-which-of-the-following-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.4. Fill in the blanks. Planting numerous trees would result in the \_\_\_\_...

Author: Olivia D'Ambrogio

Fill in the blanks. Planting numerous trees would result in the \_\_\_\_\_ of atmospheric carbon, while burning trees would result in the \_\_\_\_\_ of carbon into the atmosphere.

Please choose only one answer:

- increase; decrease
- release; sequestration
- sequestration; release
- decrease; increase

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Fill in the blanks. Planting numerous Olivia D'Ambrogio @Saylor Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/fill-in-the-blanks-planting-numerous-olivia-d-ambrogio-saylor-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/fill-in-the-blanks-planting-numerous-olivia-d-ambrogio-saylor-evolutio?pdf=1505>

#### 4.1.5. Fill in the blanks. While most autotrophs derive their main energy ...

Author: Olivia D'Ambrogio

Fill in the blanks. While most autotrophs derive their main energy from \_\_\_\_\_, heterotrophs derive their main energy from \_\_\_\_\_.

Please choose only one answer:

- plants; plants
- animals; sun
- photosynthesizes; animals
- sun; other organisms

Check the answer of this question online at QuizOver.com:

Question: [Fill in the blanks. While most autotrophs Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/fill-in-the-blanks-while-most-autotrophs-olivia-d-saylor-org-evolution?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/fill-in-the-blanks-while-most-autotrophs-olivia-d-saylor-org-evolution?pdf=1505>

#### 4.1.6. If a rose bush had 1000J of energy stored, and it was completely co...

Author: Olivia D'Ambrogio

If a rose bush had 1000J of energy stored, and it was completely consumed by a caterpillar, how much energy would the caterpillar ultimately get?

Please choose only one answer:

- 1J
- 10J
- 100J
- 1000J

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [If a rose bush had 1000J of energy stored Olivia D @Saylor.org Evolutionary](http://www.quizover.com/question/if-a-rose-bush-had-1000j-of-energy-stored-olivia-d-saylor-org-evolutio?pdf=1505)

Flashcards:

<http://www.quizover.com/flashcards/if-a-rose-bush-had-1000j-of-energy-stored-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/if-a-rose-bush-had-1000j-of-energy-stored-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.7. If a Venus fly trap (a carnivorous plant) consumes a Fruit fly, the...

Author: Olivia D'Ambrogio

If a Venus fly trap (a carnivorous plant) consumes a Fruit fly, the Venus fly trap might be considered a

Please choose only one answer:

- producer and a primary consumer
- producer and a secondary consumer
- producer and a tertiary consumer
- producer and a quaternary consumer

Check the answer of this question online at QuizOver.com:

Question: [If a Venus fly trap a carnivorous plant Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-a-venus-fly-trap-a-carnivorous-plant-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-a-venus-fly-trap-a-carnivorous-plant-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.8. In 1977, researchers discovered hot springs 2.5 km deep. Surroundin...

Author: Olivia D'Ambrogio

In 1977, researchers discovered hot springs 2.5 km deep. Surrounding these hot springs were a diverse group of animals including giant tube worms, giant clams, and mussels. The researchers found that the food web began with a bacterial species. The sun's rays can only penetrate approximately 300 m below the surface of water; therefore, the bacteria were not photosynthesizing. Instead the bacteria used hydrogen-sulfide from the hot springs to make their own food. These bacteria would be considered which of the following?

Please choose only one answer:

- Consumers
- Autotrophs
- Heterotrophs
- Photosynthesizers

Check the answer of this question online at QuizOver.com:

Question: [In 1977 researchers discovered hot springs Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/in-1977-researchers-discovered-hot-springs-olivia-d-saylor-org-evoluti?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/in-1977-researchers-discovered-hot-springs-olivia-d-saylor-org-evoluti?pdf=1505>

#### 4.1.9. In the 1960's, excessive amounts of plant nutrients such as phospho...

Author: Olivia D'Ambrogio

In the 1960's, excessive amounts of plant nutrients such as phosphorus were added to waterways around Lake Erie. Sources of the nutrients included agricultural fields, suburban lawns, and sewage. What is the result of the addition of nutrient inputs to freshwater and marine areas as a consequence of human activities as describe above?

Please choose only one answer:

- The addition ultimately increases biodiversity.
- The addition has minimum effects.
- The addition is ultimately beneficial to aquatic habitats.
- The addition causes algal blooms with can ultimately decrease biodiversity.

Check the answer of this question online at QuizOver.com:

Question: [In the 1960's excessive amounts of plant Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-1960-s-excessive-amounts-of-plant-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

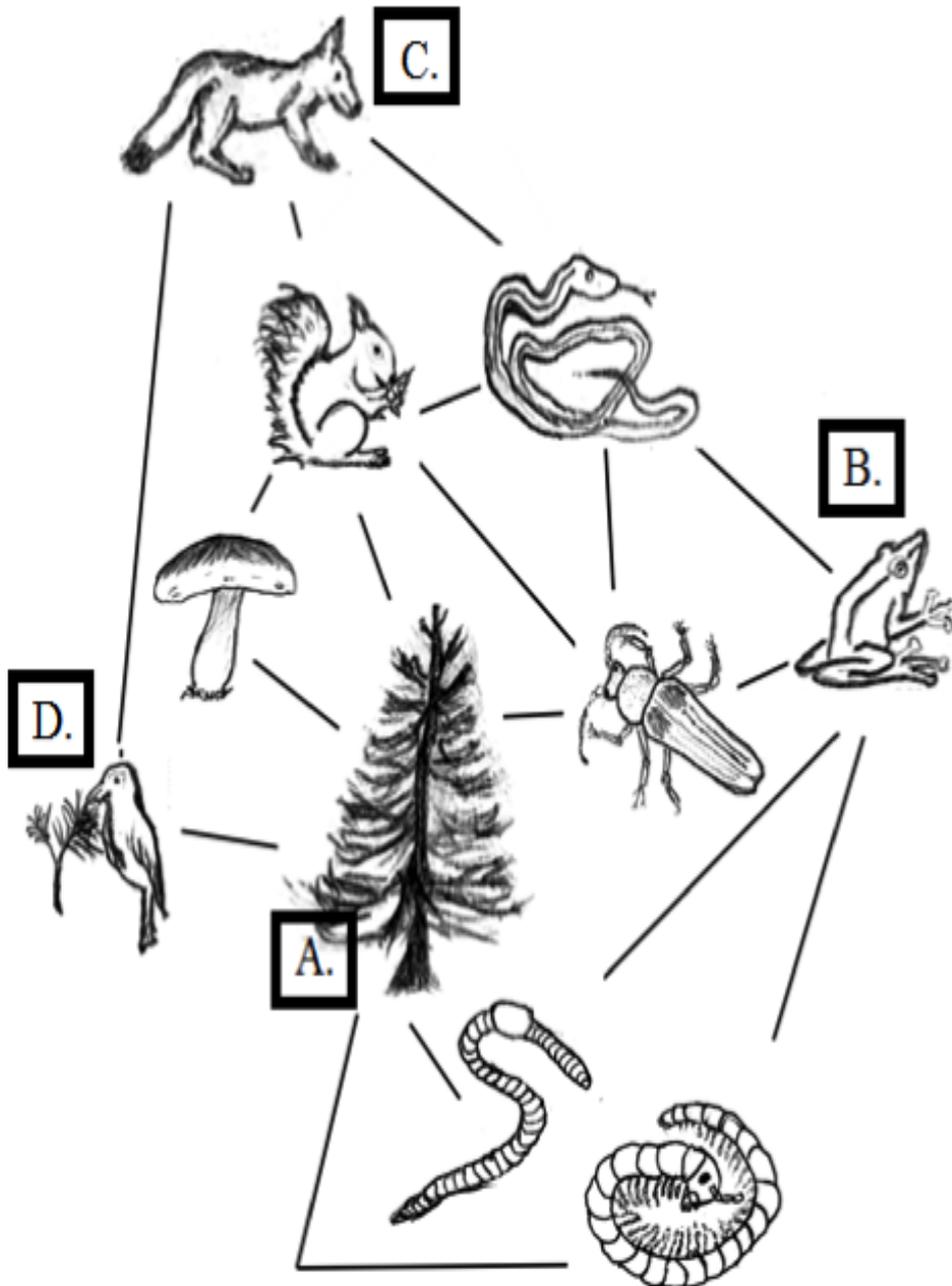
<http://www.quizover.com/question/question-in-the-1960-s-excessive-amounts-of-plant-olivia-d-ambrogio-sa?pdf=1505>

4.1.10. In the food web diagram below, removal of which keystone species wo...

Author: Olivia D'Ambrogio

In the food web diagram below, removal of which keystone species would most likely have the greatest impact on the entire web?

Source: <http://en.wikipedia.org/wiki/File:TrophicWeb.jpg>



Please choose only one answer:

- Tree
- Frog
- Fox
- Bird

Check the answer of this question online at QuizOver.com:

Question: [In the food web diagram below removal of Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-food-web-diagram-below-removal-of-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

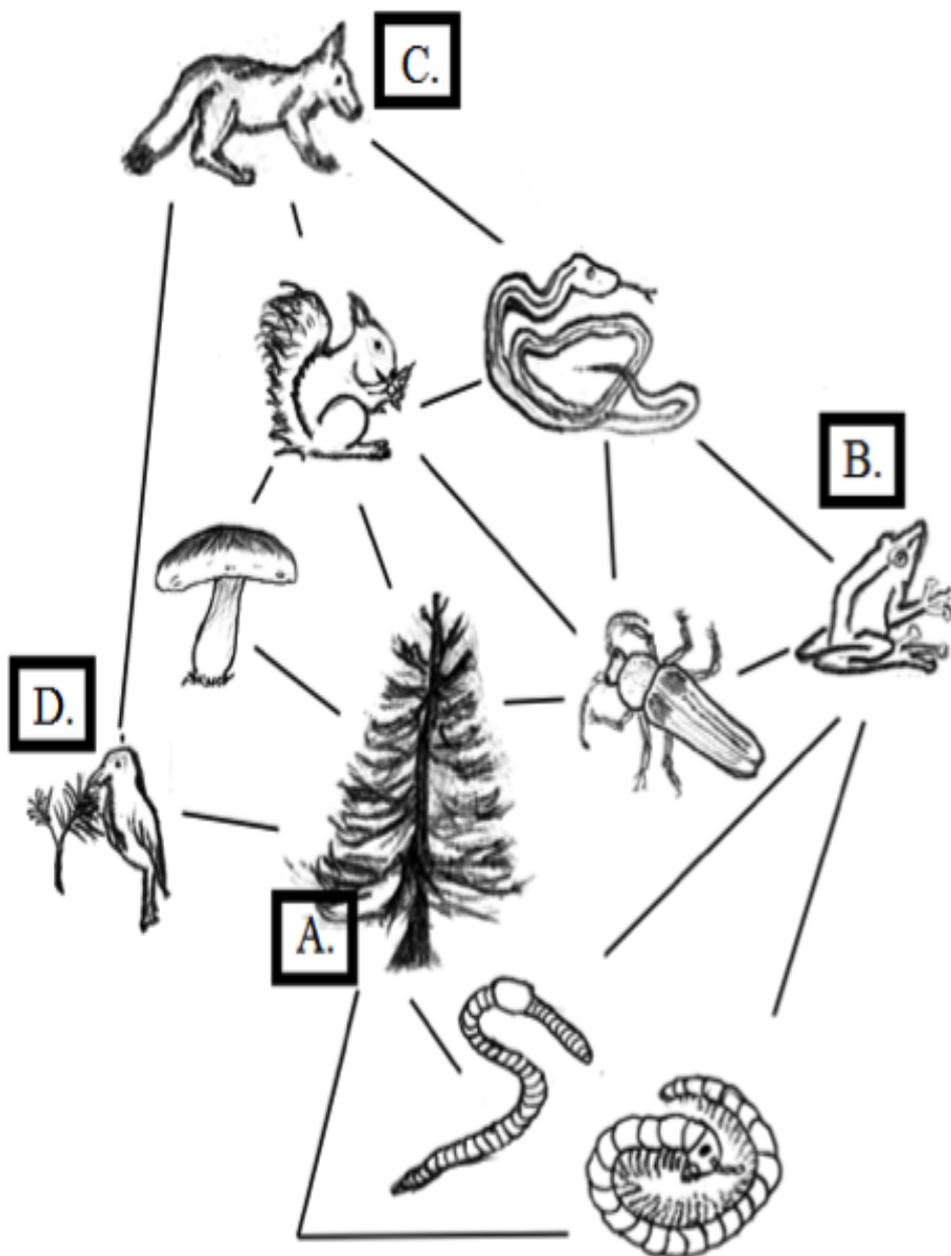
<http://www.quizover.com/question/question-in-the-food-web-diagram-below-removal-of-olivia-d-ambrogio-sa?pdf=1505>

4.1.11. In the food web diagram below, what organism is a secondary consume...

Author: Olivia D'Ambrogio

In the food web diagram below, what organism is a secondary consumer?

Source: <http://en.wikipedia.org/wiki/File:TrophicWeb.jpg>



Please choose only one answer:

- Tree

- Frog
- Fox
- Bird

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [In the food web diagram below what organism Olivia D @Saylor.org](http://www.quizover.com/question/question-in-the-food-web-diagram-below-what-organism-olivia-d-saylor-o?pdf=1505)

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-food-web-diagram-below-what-organism-olivia-d-saylor-o?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-the-food-web-diagram-below-what-organism-olivia-d-saylor-o?pdf=1505>

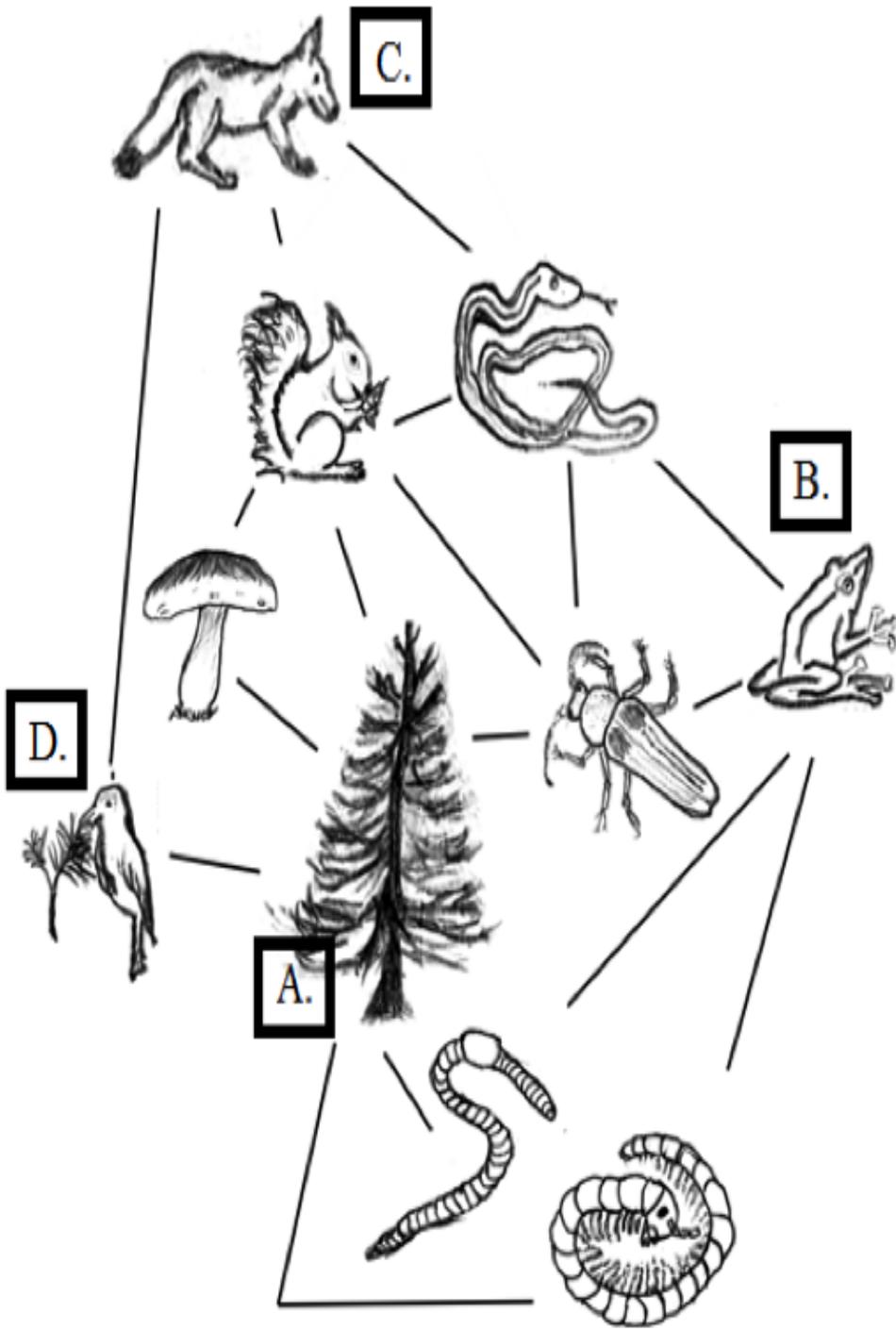
4.1.12. In the food web diagram below, what organism is a top predator?

Sou...

Author: Olivia D'Ambrogio

In the food web diagram below, what organism is a top predator?

Source: <http://en.wikipedia.org/wiki/File:TrophicWeb.jpg>



Please choose only one answer:

- Tree
- Frog
- Fox
- Bird

Check the answer of this question online at QuizOver.com:

Question: [In the food web diagram below what organism](#) Olivia D @Saylor.org

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-food-web-diagram-below-what-organism-olivia-d--4049943?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-the-food-web-diagram-below-what-organism-olivia-d--4049943?pdf=1505>

#### 4.1.13. Regarding how energy flows through an ecosystem, which of the follo...

Author: Olivia D'Ambrogio

Regarding how energy flows through an ecosystem, which of the following statements is true?

Please choose only one answer:

- As energy moves through an ecosystem, some is wasted or lost in the form of heat. Therefore, there will always be more producers in a system than consumers.
- The process of energy moving through an ecosystem is highly efficient. This allows for an equal number of consumers and producers.
- As energy moves through an ecosystem, some is wasted or lost in the form of heat. Therefore, there will always be more consumers in a system than producers.
- The process of energy moving through an ecosystem is highly efficient. This allows for more consumers than producers.

Check the answer of this question online at QuizOver.com:

Question: [Regarding how energy flows through an Olivia D'Ambrogio @Saylor Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/regarding-how-energy-flows-through-an-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/regarding-how-energy-flows-through-an-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

#### 4.1.14. The major components of the water cycle include precipitation, coll...

Author: Olivia D'Ambrogio

The major components of the water cycle include precipitation, collection, condensation, and evapo-transpiration. Evaporation is in reference to surface waters. What does the second part of the word, transpiration, refer to?

Please choose only one answer:

- Evaporation from plants
- Evaporation through animal perspiration
- Evaporation off the ground shaded by plants
- Evaporation from the surface of rivers

Check the answer of this question online at QuizOver.com:

Question: [The major components of the water cycle Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-major-components-of-the-water-cycle-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-major-components-of-the-water-cycle-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.15. Which marine zone would be most abundant in photosynthetic producers?

Author: Olivia D'Ambrogio

Which marine zone would be most abundant in photosynthetic producers?

Please choose only one answer:

- Epipelagic
- Mesopelagic
- Bathypelagic
- Abyssopelagic

Check the answer of this question online at QuizOver.com:

Question: [Which marine zone would be most abundant Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-marine-zone-would-be-most-abundant-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-marine-zone-would-be-most-abundant-olivia-d-ambrogio-sa?pdf=1505>

## 4. Chapter: Unit 05: Speciation

### 1. Unit 05: Speciation Questions

#### 4.1.1. An epicanthic fold of skin is commonly found among Northern Asians....

Author: Olivia D'Ambrogio

An epicanthic fold of skin is commonly found among Northern Asians. This feature may have been advantageous in the bitter cold temperatures of Mongolia and parts of Northern China. Though during modern times this feature has lost its significance, it is still quite prominent among Asians. This an example of which of the following?

Please choose only one answer:

- Natural selection
- Genetic drift
- Mutation
- Migration

Check the answer of this question online at QuizOver.com:

Question: [An epicanthic fold of skin is commonly Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-an-epicanthic-fold-of-skin-is-commonly-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-an-epicanthic-fold-of-skin-is-commonly-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.2. Galapagos finches are the same size. The only differences, which ha...

Author: Olivia D'Ambrogio

Galapagos finches are the same size. The only differences, which have developed based on their food habits on different islands, are in their bill size and shape. This is an example of which of the following?

Please choose only one answer:

- Allopatric speciation
- Sympatric speciation
- Parapatric speciation
- Allo-parapatric speciation

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Galapagos finches are the same size. The Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-galapagos-finches-are-the-same-size-the-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-galapagos-finches-are-the-same-size-the-olivia-d-ambrogio-say?pdf=1505>

### 4.1.3. Hybrid zones are areas where hybrid offspring of two divergent popu...

Author: Olivia D'Ambrogio

Hybrid zones are areas where hybrid offspring of two divergent populations is prevalent. Which of the following statements regarding hybrid zone is false?

Please choose only one answer:

- Hybrid zones help in parapatric speciation.
- For a stable hybrid zone, the hybrids have to have higher fitness than the parents.
- Introgression is a common phenomenon in hybrid zones.
- Hybrid zones can be either primary or secondary origin.

Check the answer of this question online at QuizOver.com:

Question: [Hybrid zones are areas where hybrid Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-hybrid-zones-are-areas-where-hybrid-olivia-d-ambrogio-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-hybrid-zones-are-areas-where-hybrid-olivia-d-ambrogio-saylor?pdf=1505>

#### 4.1.4. In the Northeast Pacific, two species of orcas (killer whales) inha...

Author: Olivia D'Ambrogio

In the Northeast Pacific, two species of orcas (killer whales) inhabit the waters. Their preference of prey species is different, vocal communication is different, and social behavior is different. These two species avoid each other and never interbreed. This is a classic example of which of the following?

Please choose only one answer:

- Allopatric speciation
- Sympatric speciation
- Parapatric speciation
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [In the Northeast Pacific two species of Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-northeast-pacific-two-species-of-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-the-northeast-pacific-two-species-of-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.5. In the wild, 'Bufo americanus' and 'Bufo fowleri', two species of t...

Author: Olivia D'Ambrogio

In the wild, 'Bufo americanus' and 'Bufo fowleri', two species of toads, live in the same habitat at the same time. While these two species can be interbred in the laboratory, this interbreeding does not occur in nature. 'B. americanus' reproduces in the early summer, while 'B. fowleri' mates in the late summer. This is an example of which of the following reproductive isolating mechanisms?

Please choose only one answer:

- Prezygotic isolation
- Post zygotic isolation
- Temporal isolation
- Both A and C

Check the answer of this question online at QuizOver.com:

Question: [In the wild 'Bufo americanus' and 'Bufo Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-wild-bufo-americanus-and-bufo-olivia-d-ambrogio-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-the-wild-bufo-americanus-and-bufo-olivia-d-ambrogio-saylor?pdf=1505>

#### 4.1.6. Leakage of alleles across the hybrid zone is referred to as which o...

Author: Olivia D'Ambrogio

Leakage of alleles across the hybrid zone is referred to as which of the following?

Please choose only one answer:

- Introgressive hybridization
- Primary contact
- Secondary contact
- Disruptive selection

Check the answer of this question online at QuizOver.com:

Question: [Leakage of alleles across the hybrid zone Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/leakage-of-alleles-across-the-hybrid-zone-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/leakage-of-alleles-across-the-hybrid-zone-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.7. Males of wood and leopard frogs have different vocalizations which ...

Author: Olivia D'Ambrogio

Males of wood and leopard frogs have different vocalizations which attract only females of their species. This is a classic case of which mechanism?

Please choose only one answer:

- Prezygotic isolation
- Prezygotic and behavioral isolation
- Behavioral isolation
- Mechanical isolation

Check the answer of this question online at QuizOver.com:

Question: [Males of wood and leopard frogs have Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-males-of-wood-and-leopard-frogs-have-olivia-d-ambrogio-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-males-of-wood-and-leopard-frogs-have-olivia-d-ambrogio-saylor?pdf=1505>

#### 4.1.8. Ring species are an example of which of the following?

Author: Olivia D'Ambrogio

Ring species are an example of which of the following?

Please choose only one answer:

- Sympatric speciation
- Allopatric speciation
- Parapatric speciation
- Allo-parapatric speciation

Check the answer of this question online at QuizOver.com:

Question: [Ring species are an example of which of Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-ring-species-are-an-example-of-which-of-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-ring-species-are-an-example-of-which-of-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.9. Some butterflies from the mainland are carried by a hurricane to an...

Author: Olivia D'Ambrogio

Some butterflies from the mainland are carried by a hurricane to an isolated island. These butterfly species have rare genes from those found on the island. Over the course of time, these rare genes drift to fixation in the island and ultimately evolve into a separate species from the mainland. This is an example of which of the following?

Please choose only one answer:

- Parapatric speciation
- Sympatric speciation
- Peripatric speciation
- Allo-parapatric speciation

Check the answer of this question online at QuizOver.com:

Question: [Some butterflies from the mainland are Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-some-butterflies-from-the-mainland-are-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-some-butterflies-from-the-mainland-are-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.10. Speciation occurring in geographic isolation is known as which of t...

Author: Olivia D'Ambrogio

Speciation occurring in geographic isolation is known as which of the following?

Please choose only one answer:

- Parapatric speciation
- Founder effect speciation
- Allopatric speciation
- Allo-parapatric speciation

Check the answer of this question online at QuizOver.com:

Question: [Speciation occurring in geographic isolation Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-speciation-occurring-in-geographic-isolation-olivia-d-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-speciation-occurring-in-geographic-isolation-olivia-d-saylor?pdf=1505>

#### 4.1.11. Species is defined as which of the following?

Author: Olivia D'Ambrogio

Species is defined as which of the following?

Please choose only one answer:

- All organisms within a single family unit
- A group of similar individuals capable of interbreeding
- All organisms inhabiting the same area at the same time
- A single pair of individuals that can produce offspring

Check the answer of this question online at QuizOver.com:

Question: [Species is defined as which of the following Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-species-is-defined-as-which-of-the-following-olivia-d-saylor?pdf=1505>

Interactive Question:

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#### 4.1.12. The gradualist model of evolution differs from punctuated equilibri...

Author: Olivia D'Ambrogio

The gradualist model of evolution differs from punctuated equilibrium in which of the following ways?

Please choose only one answer:

- Punctuated equilibrium occurs at a slow and constant rate, while gradualist evolution occurs at a faster rate after a period of stasis.
- Gradualist evolution occurs at a slow and constant rate, while punctuated equilibrium occurs at a faster rate after a period of stasis.
- Punctuated equilibrium is not essential for the formation of new species, while gradualist evolution is essential.
- Gradualist evolution is not essential for the formation of new species, while punctuated equilibrium is essential.

Check the answer of this question online at QuizOver.com:

Question: [The gradualist model of evolution differs Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/the-gradualist-model-of-evolution-differs-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/the-gradualist-model-of-evolution-differs-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.13. Two species of dogs are unable to mate because of their sizes. This...

Author: Olivia D'Ambrogio

Two species of dogs are unable to mate because of their sizes. This is a classic example of which of the following mechanisms?

Please choose only one answer:

- Environmental isolation
- Temporal isolation
- Behavioral isolation
- Mechanical isolation

Check the answer of this question online at QuizOver.com:

Question: [Two species of dogs are unable to mate Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-two-species-of-dogs-are-unable-to-mate-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-two-species-of-dogs-are-unable-to-mate-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.14. Which of the following is the most effective form of reproductive i...

Author: Olivia D'Ambrogio

Which of the following is the most effective form of reproductive isolation?

Please choose only one answer:

- Seasonal isolation
- Mechanical isolation
- Behavioral isolation
- Developmental isolation

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is the most effective Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-the-most-effective-olivia-d-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-the-most-effective-olivia-d-saylor?pdf=1505>

#### 4.1.15. Which of the following statements regarding parapatric speciation i...

Author: Olivia D'Ambrogio

Which of the following statements regarding parapatric speciation is correct?

Please choose only one answer:

- The species population is not continuous.
- The population mates randomly.
- There is no extrinsic barrier to gene flow.
- The parent species does not live in a continuous habitat.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements regarding Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-statements-regarding-olivia-d--4052774?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-statements-regarding-olivia-d--4052774?pdf=1505>

## 4. Chapter: Unit 04: Evolution of Populations

### 1. Unit 04: Evolution of Populations Questions

#### 4.1.1. A rancher has 3 distinct cow herds in which he keeps on separate la...

Author: Olivia D'Ambrogio

A rancher has 3 distinct cow herds in which he keeps on separate land, but after a particularly hard winter, he decides to combine 2 of the herds for spring breeding. This assumption in the Hardy-Weinberg principle most likely relates to which of the following?

Please choose only one answer:

- Mutation
- Gene flow
- Genetic drift
- Natural selection

Check the answer of this question online at QuizOver.com:

Question: [A rancher has 3 distinct cow herds in Olivia D'Ambrogio @Saylor Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/a-rancher-has-3-distinct-cow-herds-in-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/a-rancher-has-3-distinct-cow-herds-in-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

#### 4.1.2. Albinism is a rare genetic trait. The average human frequency of al...

Author: Olivia D'Ambrogio

Albinism is a rare genetic trait. The average human frequency of albinism in North America is only about 1 in 20,000. Considering Hardy-Weinberg's equation  $p^2 + 2pq + q^2 = 1$ , what is the frequency of the normal allele?

Please choose only one answer:

- 80 in 100
- 90 in 100
- 99 in 100
- 1 in 140

Check the answer of this question online at QuizOver.com:

Question: [Albinism is a rare genetic trait. The Olivia D'Ambrogio @Saylor Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/albinism-is-a-rare-genetic-trait-the-olivia-d-ambrogio-saylor-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/albinism-is-a-rare-genetic-trait-the-olivia-d-ambrogio-saylor-evolutio?pdf=1505>

#### 4.1.3. Complete the following statement. A population in Hardy-Weinberg eq...

Author: Olivia D'Ambrogio

Complete the following statement. A population in Hardy-Weinberg equilibrium:

Please choose only one answer:

- shows significant change in the frequency of dominant alleles.
- shows significant change in the frequency of recessive alleles.
- shows no change in the gene pool.
- shows significant change in the gene pool.

Check the answer of this question online at QuizOver.com:

Question: [Complete the following statement. A Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-complete-the-following-statement-a-olivia-d-ambrogio-saylor-o?pdf=1505>

Interactive Question:

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#### 4.1.4. Complete the following statement. For a population in Hardy-Weinber...

Author: Olivia D'Ambrogio

Complete the following statement. For a population in Hardy-Weinberg equilibrium:

Please choose only one answer:

- alleles of the genes that have no current selective value will be retained.
- recessive alleles will tend to disappear.
- the population, over time will become homozygous for dominant alleles.
- the frequency of homozygous individuals will increase.

Check the answer of this question online at QuizOver.com:

Question: [Complete the following statement. For a Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-complete-the-following-statement-for-a-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-complete-the-following-statement-for-a-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.5. Female elk tend to choose males that have large body size and large...

Author: Olivia D'Ambrogio

Female elk tend to choose males that have large body size and large antlers with many points. Which assumption of the Hardy-Weinberg equilibrium is primarily being violated in these populations?

Please choose only one answer:

- Mutation
- Gene flow
- Non-random mating
- Natural selection

Check the answer of this question online at QuizOver.com:

Question: [Female elk tend to choose males that have Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/female-elk-tend-to-choose-males-that-have-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/female-elk-tend-to-choose-males-that-have-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.6. Hardy-Weinberg equilibrium assumptions do not account for which of ...

Author: Olivia D'Ambrogio

Hardy-Weinberg equilibrium assumptions do not account for which of the following that has likely played a very major role in evolution?

Please choose only one answer:

- Natural selection
- Non-random mating
- Gene duplication
- Genetic drift

Check the answer of this question online at QuizOver.com:

Question: [Hardy-Weinberg equilibrium assumptions do Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/hardy-weinberg-equilibrium-assumptions-do-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/hardy-weinberg-equilibrium-assumptions-do-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.7. In real populations, disturbing influences are always in effect. Th...

Author: Olivia D'Ambrogio

In real populations, disturbing influences are always in effect. Therefore, what is the main function and purpose of the Hardy-Weinberg equation?

Please choose only one answer:

- It provides an ideal state baseline against which change can be analyzed.
- It provides an accurate data set snapshot of the current population's gene frequencies.
- It provides an accurate prediction for future populations' genetic frequencies.
- It identifies sex-linked traits.

Check the answer of this question online at QuizOver.com:

Question: [In real populations disturbing influences Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/in-real-populations-disturbing-influences-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/in-real-populations-disturbing-influences-olivia-d-saylor-org-evolutio?pdf=1505>

4.1.8. In the Hardy-Weinberg equation  $(p + q)^2 = p^2 + 2pq + q^2$ , what does ...

Author: Olivia D'Ambrogio

In the Hardy-Weinberg equation  $(p + q)^2 = p^2 + 2pq + q^2$ , what does  $2pq$  represent?

Please choose only one answer:

- The fraction of the population who are homozygous for p
- The number of the population who are heterozygous for p
- The fraction of the population who are homozygous for q
- The fraction of the population who are heterozygotes

Check the answer of this question online at QuizOver.com:

Question: [In the Hardy-Weinberg equation p q p 2pq Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-hardy-weinberg-equation-p-q-p-2pq-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-the-hardy-weinberg-equation-p-q-p-2pq-olivia-d-ambrogio-sa?pdf=1505>

4.1.9. In the Hardy-Weinberg equation  $(p + q)^2 = p^2 + 2pq + q^2$ , what does ...

Author: Olivia D'Ambrogio

In the Hardy-Weinberg equation  $(p + q)^2 = p^2 + 2pq + q^2$ , what does  $p^2$  represent?

Please choose only one answer:

- The fraction of the population who are homozygous for p
- The number of the population who are heterozygous for p
- The fraction of the population who are homozygous for q
- The fraction of the population who are heterozygotes

Check the answer of this question online at QuizOver.com:

Question: [In the Hardy-Weinberg equation p q p 2pq Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-hardy-weinberg-equation-p-q-p-2pq-olivia-d-amb-4054154?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-the-hardy-weinberg-equation-p-q-p-2pq-olivia-d-amb-4054154?pdf=1505>

#### 4.1.10. It was hypothesized that approximately 10,000 years ago the African...

Author: Olivia D'Ambrogio

It was hypothesized that approximately 10,000 years ago the African cheetah went through a remarkable decline in population, necessitating a high occurrence of interbreeding, which caused a genetic bottleneck and resulted in near genetic uniformity at many different loci. Which violation of the Hardy Weinberg equilibrium occurred in these animals?

Please choose only one answer:

- Mutation
- Gene flow
- Genetic drift
- Natural selection

Check the answer of this question online at QuizOver.com:

Question: [It was hypothesized that approximately 10,000 years ago the African cheetah went through a remarkable decline in population, necessitating a high occurrence of interbreeding, which caused a genetic bottleneck and resulted in near genetic uniformity at many different loci. Which violation of the Hardy Weinberg equilibrium occurred in these animals?](#) Olivia D'Ambrogio @Saylor

Flashcards:

<http://www.quizover.com/flashcards/question-it-was-hypothesized-that-approximately-1-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-it-was-hypothesized-that-approximately-1-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.11. Use the Hardy-Weinberg equation. If the fraction of the population ...

Author: Olivia D'Ambrogio

Use the Hardy-Weinberg equation. If the fraction of the population who are homozygous for p is 0.16, then what are the allele frequency (q) and the genotypic frequency ( $q^2$ )?

Please choose only one answer:

- 0.4 and 0.16
- 0.6 and 0.36
- 0.84 and 0.71
- 0.36 and 0.6

Check the answer of this question online at QuizOver.com:

Question: [Use the Hardy-Weinberg equation. If the Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-use-the-hardy-weinberg-equation-if-the-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-use-the-hardy-weinberg-equation-if-the-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.12. Use the Hardy-Weinberg equation. If the fraction of the population ...

Author: Olivia D'Ambrogio

Use the Hardy-Weinberg equation. If the fraction of the population who are homozygous for p is 0.16, what is the fraction of the population who are heterozygotes?

Please choose only one answer:

- 0.48
- 0.16
- 0.4
- 0.6

Check the answer of this question online at QuizOver.com:

Question: [Use the Hardy-Weinberg equation. If the Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-use-the-hardy-weinberg-equation-if-the-olivia-d-ambro-4054574?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-use-the-hardy-weinberg-equation-if-the-olivia-d-ambro-4054574?pdf=1505>

#### 4.1.13. Which of the following best describes the main assumption of the Ha...

Author: Olivia D'Ambrogio

Which of the following best describes the main assumption of the Hardy-Weinberg equilibrium equation?

Please choose only one answer:

- The Hardy-Weinberg equilibrium equation assumes no mutations.
- The Hardy-Weinberg equilibrium equation assumes no disturbing influences are in effect on a species.
- The Hardy-Weinberg equilibrium equation assumes no gene flow.
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Which of the following best describes the Olivia D @Saylor.org Evolutionary](#)

Flashcards:

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Interactive Question:

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#### 4.1.14. Which of the following statements about the Hardy Weinberg equation...

Author: Olivia D'Ambrogio

Which of the following statements about the Hardy Weinberg equation:  $p^2 + 2pq + q^2 = 1$  is true?

Please choose only one answer:

- p represents the frequency of the recessive allele for a specific trait.
- q represents the dominant allele of a specific trait.
- The equation allows you to calculate the allele frequencies from the genotypic frequencies.
- The equation allows you to discover the genotype frequencies if you know the phenotype frequencies.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements about Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-statements-about-olivia-d-ambr-4054892?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-statements-about-olivia-d-ambr-4054892?pdf=1505>

#### 4.1.15. Which statement best describes the Hardy-Weinberg principle?

Author: Olivia D'Ambrogio

Which statement best describes the Hardy-Weinberg principle?

Please choose only one answer:

- Migration between populations will make allele frequencies in the species more homogeneous.
- Species have static allele and genotype frequencies across populations.
- With no disturbing influences, populations have static allele and genotype frequencies across generations.
- Over time, populations will all converge on heterozygosity for all traits.

Check the answer of this question online at QuizOver.com:

Question: [Which statement best describes the Hardy Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-statement-best-describes-the-hardy-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-statement-best-describes-the-hardy-olivia-d-ambrogio-sa?pdf=1505>

## 4. Chapter: Unit 02: Heredity and Inheritance

### 1. Unit 02: Heredity and Inheritance Questions

#### 4.1.1. For blood type in humans, the A and B alleles are codominant, while...

Author: Olivia D'Ambrogio

For blood type in humans, the A and B alleles are codominant, while the o allele is recessive. If an AB blood type mother had children with a B blood type father (genotype Bo), what approximate proportion of the children would have type B blood, and what proportion would have type A blood?

Please choose only one answer:

- 1/4 type B, 1/4 type A
- 1/2 type B, 1/4 type A
- 1/2 type B, 1/2 type A
- All would be type AB

Check the answer of this question online at QuizOver.com:

Question: [For blood type in humans the A and B Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-blood-type-in-humans-the-a-and-b-olivia-d-ambrogio-saylor?pdf=1505>

Interactive Question:

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#### 4.1.2. For blood type in humans, the A and B alleles are codominant, while...

Author: Olivia D'Ambrogio

For blood type in humans, the A and B alleles are codominant, while the o allele is recessive. If an AB blood type mother had children with a B blood type father (genotype Bo), what approximate proportion of the children would express the protein associated with the B allele alone?

Please choose only one answer:

- 1/4
- 1/2
- 3/4
- 4/4

Check the answer of this question online at QuizOver.com:

Question: [For blood type in humans the A and B Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-blood-type-in-humans-the-a-and-b-olivia-d-ambrogi-4055425?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-for-blood-type-in-humans-the-a-and-b-olivia-d-ambrogi-4055425?pdf=1505>

### 4.1.3. How many copies of each autosomal gene does the average person have...

Author: Olivia D'Ambrogio

How many copies of each autosomal gene does the average person have in each somatic cell?

Please choose only one answer:

- 1
- 2
- 3
- 4 or more

Check the answer of this question online at QuizOver.com:

Question: [How many copies of each autosomal gene Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-how-many-copies-of-each-autosomal-gene-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-how-many-copies-of-each-autosomal-gene-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.4. How many copies of each autosomal gene does the average human gamet...

Author: Olivia D'Ambrogio

How many copies of each autosomal gene does the average human gamete have?

Please choose only one answer:

- 1
- 2
- 3
- 4 or more

Check the answer of this question online at QuizOver.com:

Question: [How many copies of each autosomal gene Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-how-many-copies-of-each-autosomal-gene-olivia-d-ambro-4055879?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-how-many-copies-of-each-autosomal-gene-olivia-d-ambro-4055879?pdf=1505>

#### 4.1.5. If neither mother nor father express a sex-linked trait such as col...

Author: Olivia D'Ambrogio

If neither mother nor father express a sex-linked trait such as colorblindness ( $X'$ , where the apostrophe represents the presence of the associated allele), but both of their sons express the trait, what are the genotypes of the parents?

Please choose only one answer:

- $XX$  and  $X'Y$
- $XX$  and  $XY$
- $X'X$  and  $X'Y$
- $X'X$  and  $XY$

Check the answer of this question online at QuizOver.com:

Question: [If neither mother nor father express a Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-neither-mother-nor-father-express-a-olivia-d-ambrogio-sayl?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-neither-mother-nor-father-express-a-olivia-d-ambrogio-sayl?pdf=1505>

#### 4.1.6. If two alleles for eye color (Y and B, representing yellow and blue...

Author: Olivia D'Ambrogio

If two alleles for eye color (Y and B, representing yellow and blue, respectively) in flies show incomplete dominance, and a third allele is recessive (o), what would be the approximate proportions of offspring eye phenotype for a cross between a yellow-eyed male (Yo) and a blue-eyed female (BB)?

Please choose only one answer:

- All green-eyed offspring
- 1/2 green, 1/2 blue
- 1/4 blue, 1/2 green, 1/4 yellow
- 1/2 yellow, 1/2 blue

Check the answer of this question online at QuizOver.com:

Question: [If two alleles for eye color Y and B Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-two-alleles-for-eye-color-y-and-b-olivia-d-ambrogio-saylor?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-two-alleles-for-eye-color-y-and-b-olivia-d-ambrogio-saylor?pdf=1505>

#### 4.1.7. If you are heterozygous for a particular gene, what approximate pro...

Author: Olivia D'Ambrogio

If you are heterozygous for a particular gene, what approximate proportion of your offspring would get the recessive form of the gene from you?

Please choose only one answer:

- $1/4$
- $1/2$
- $3/4$
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [If you are heterozygous for a particular Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-you-are-heterozygous-for-a-particular-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-you-are-heterozygous-for-a-particular-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.8. Jan, a researcher at the University of Michigan, extracts a liver c...

Author: Olivia D'Ambrogio

Jan, a researcher at the University of Michigan, extracts a liver cell from a rat. She stains the cell and counts that it has 42 chromosomes. How many chromosomes would be in a gamete from this same organism?

Please choose only one answer:

- 42
- 21
- 84
- 10

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Jan a researcher at the University of Olivia D'Ambrogio @Saylor Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/jan-a-researcher-at-the-university-of-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/jan-a-researcher-at-the-university-of-olivia-d-ambrogio-saylor-evoluti?pdf=1505>

#### 4.1.9. Taking into consideration the process of meiosis and all of its inc...

Author: Olivia D'Ambrogio

Taking into consideration the process of meiosis and all of its included events, which of the following pairs of genes are the most likely to regularly end up in the same gamete with each other?

Please choose only one answer:

- Two genes next to each other on the same chromosome
- Two genes in identical positions on different chromosomes
- Two genes on opposite ends of the same chromosome
- Both A and C

Check the answer of this question online at QuizOver.com:

Question: [Taking into consideration the process of Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-taking-into-consideration-the-process-of-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-taking-into-consideration-the-process-of-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.10. What are the limits of Mendelian genetics?

Author: Olivia D'Ambrogio

What are the limits of Mendelian genetics?

Please choose only one answer:

- It does not take into account linkage, mutations, and gene interactions.
- No genes work as simply as suggested by these principles.
- The laws of segregation and independent assortment are false.
- No limits; Mendelian genetics works quite well in all situations.

Check the answer of this question online at QuizOver.com:

Question: [What are the limits of Mendelian genetics Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/what-are-the-limits-of-mendelian-genetics-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/what-are-the-limits-of-mendelian-genetics-olivia-d-saylor-org-evolutio?pdf=1505>

#### 4.1.11. What is the difference between an autosomal trait and a sex-linked ...

Author: Olivia D'Ambrogio

What is the difference between an autosomal trait and a sex-linked trait?

Please choose only one answer:

- Autosomal traits are based on genes, and sex-linked traits are based on hormones.
- Only males have alleles associated with sex-linked traits, while both males and females have alleles associated with sex-linked traits.
- Sex-linked traits are due to genes that occur on the chromosomes that determine sex, while autosomal traits are due to genes that occur on any of the other chromosomes.
- Autosomal traits are those that occur when an individual has only one allele, while sex-linked traits usually are due to the interaction of two or more alleles.

Check the answer of this question online at QuizOver.com:

Question: [What is the difference between an autosomal Olivia D @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-difference-between-an-autosomal-olivia-d-saylor-o?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-the-difference-between-an-autosomal-olivia-d-saylor-o?pdf=1505>

#### 4.1.12. What is trisomy?

Author: Olivia D'Ambrogio

What is trisomy?

Please choose only one answer:

- When somatic (diploid) cells contain 3 copies of a given chromosome
- When a gamete has 3 copies of a given chromosome
- When somatic (diploid) cells have only 3 chromosomes total
- When a gamete has only 3 chromosomes total

Check the answer of this question online at QuizOver.com:

Question: [What is trisomy Olivia D'Ambrogio @Saylor.org Evolutionary Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-trisomy-olivia-d-ambrogio-saylor-org-evolutionary-bio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-trisomy-olivia-d-ambrogio-saylor-org-evolutionary-bio?pdf=1505>

#### 4.1.13. What would be the effect of an inverted gene (due to inversion duri...

Author: Olivia D'Ambrogio

What would be the effect of an inverted gene (due to inversion during meiosis)?

Please choose only one answer:

- No effect
- An inactive or otherwise altered protein product
- Twice as much protein product
- No transcriptase

Check the answer of this question online at QuizOver.com:

Question: [What would be the effect of an inverted Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-would-be-the-effect-of-an-inverted-olivia-d-ambrogio-say?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-would-be-the-effect-of-an-inverted-olivia-d-ambrogio-say?pdf=1505>

#### 4.1.14. Which of the following occurs when a DNA sequence on one chromosome...

Author: Olivia D'Ambrogio

Which of the following occurs when a DNA sequence on one chromosome is switched with a DNA sequence on another chromosome?

Please choose only one answer:

- Inversion
- Deletion
- Point mutation
- Reciprocal translocation

Check the answer of this question online at QuizOver.com:

Question: [Which of the following occurs when a DNA Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-occurs-when-a-dna-olivia-d-ambrogio-sa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-occurs-when-a-dna-olivia-d-ambrogio-sa?pdf=1505>

#### 4.1.15. Which type of traits do the principles of Mendelian genetics work b...

Author: Olivia D'Ambrogio

Which type of traits do the principles of Mendelian genetics work best for?

Please choose only one answer:

- Continuous, polygenic traits
- All traits
- Discrete traits affected by only one gene
- Pleiotropic traits

Check the answer of this question online at QuizOver.com:

Question: [Which type of traits do the principles of Olivia D @Saylor.org Evolutionary](#)

Flashcards:

<http://www.quizover.com/flashcards/which-type-of-traits-do-the-principles-of-olivia-d-saylor-org-evolutio?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/which-type-of-traits-do-the-principles-of-olivia-d-saylor-org-evolutio?pdf=1505>