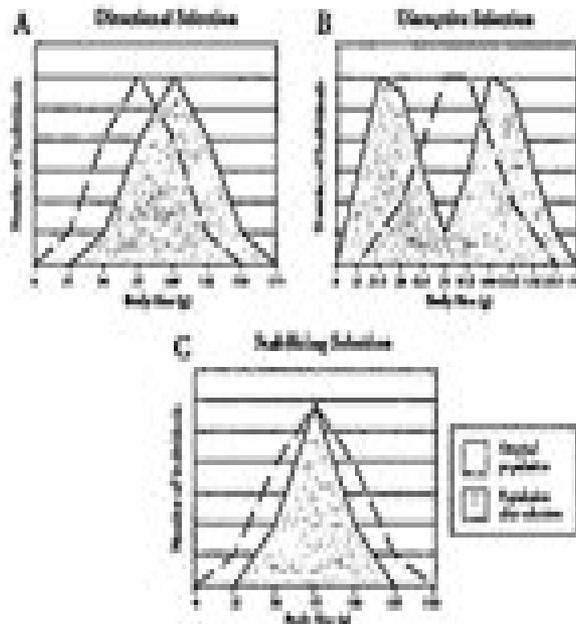


## ESS1: Speciation and Natural Selection

### Objective:

- Describe the conditions under which new species may arise.

### Model 1: Types of Speciation



1. Looking at Model 1, body size would be inherited as a \_\_\_\_\_ trait.

2. What are the three types of selection described in Model 1?

3. Fitness is defined as the ability of an individual (population) to survive and reproduce that passing on their genes. Looking at each selection in Model 1 identify the group(s) with the most fitness.

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

Read each scenario and determine which type of selection is being described. (Put the letter in the blank.)

- A type of squirrel has varied tail lengths: short, medium, and long.
- \_\_\_\_\_ In a particular environment short tailed squirrels avoid predators and long tailed squirrels are able to balance better in trees giving them an additional place to hide from predators.
- \_\_\_\_\_ In a particular environment short tails mean up the squirrels balance causing them to trip and long tails dig in the ground slowing down the squirrels. Medium length tailed squirrels balance better and run away from predators the fastest.
- \_\_\_\_\_ In a particular environment, there are a great many trees that the predators cannot reach. Long tailed squirrels balance best in these trees.
- A type of rice varies in fur color from white, gray and black.
- \_\_\_\_\_ If you start with a population of rice that have approximately the same number of solid black, solid gray and solid white rice but at the end of two years there are mostly black rice left, what type of selection occurred?
- \_\_\_\_\_ What type of selection occurred if at the end of two years there are very few gray but many solid black and solid white rice left in the population?
- What type of selection occurred if there were mostly gray rice left after two years and only a few solid white and solid black? \_\_\_\_\_

### Model 2: Defining a species

#### Read This

Natural selection, the improved fitness of certain individuals in the population that allows for survival and reproduction, is the primary mechanism by which populations adaptively change over time. Other mechanisms include the introduction of a mutation in the population and artificial selection (the effect of humans purposefully breeding animals to select for desirable traits). At what point does a change in the population develop a new species? According to the Biological Species Concept, a species can interbreed and produce viable, fertile offspring. Therefore when two species can no longer interbreed to create viable, fertile offspring, they would be considered different species. This is considered to be reproductive isolation.

# Natural Selection Pogil Answers

**Peipei Pang**



**Natural Selection Pogil Answers:**

This book delves into Natural Selection Pogil Answers. Natural Selection Pogil Answers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Natural Selection Pogil Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Natural Selection Pogil Answers
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    - Chapter 4: Natural Selection Pogil Answers in Specific Contexts
    - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Natural Selection Pogil Answers.

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