



# Amoeba Sisters | Video Recap

NAME: \_\_\_\_\_

## Amoeba Sisters Video Select Recap: Speciation

1. How would you define the term **species** in your own words? Based on this definition, why is the domesticated cat below considered a different species from a domesticated dog?

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2. Based on this species definition, are the different dog breeds shown below different **species**? Why or why not?

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3. The video mentions that genetic drift and natural selection are examples of mechanisms that can result in speciation. Explain how **natural selection** can be involved in speciation and the role that **isolation** can have in this.

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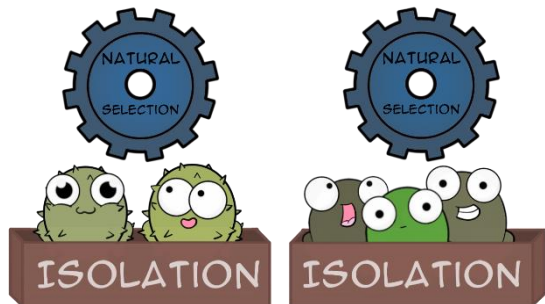
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4. The following comic shows **geographic isolation**. If speciation occurred among the two different populations, would this be an example of **sympatric** or **allopatric** speciation? How do you know?

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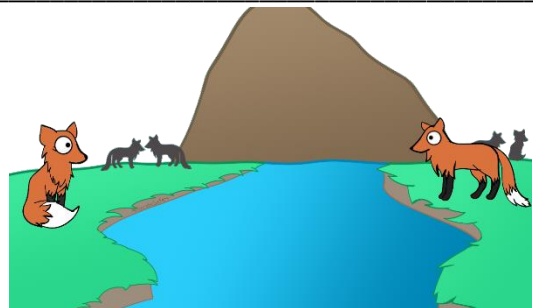
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## Amoeba Sisters Video Select Recap: Speciation

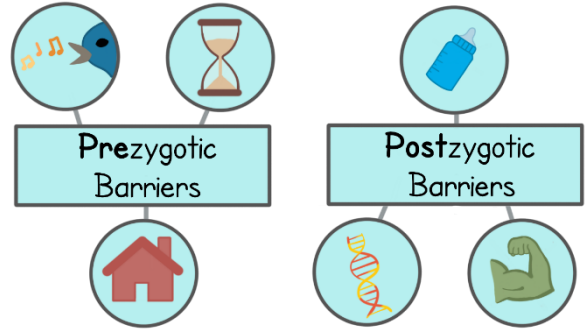
5. The video provides examples of different isolation types and classifies them as prezygotic or postzygotic barriers. What is the difference between a **prezygotic barrier** and a **postzygotic barrier**?

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6. What are two examples of a **postzygotic barrier**?

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The following are just a few examples of speciation that do not involve geographic isolation. These examples used in the video are **prezygotic barriers**. For the following, define each in your own words and sketch a way to help you remember.

	Defined in Your Own Words	Sketch It!
Behavioral Isolation	7.	8.
Temporal Isolation	9.	10.
Habitat Isolation	11.	12.



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