

Name _____

Period _____ Date _____

Speciation Notes

What is a species?

A **species** is a _____ of _____ that can _____ and produce _____

- The _____ must be _____!

Speciation

Speciation occurs when one _____ encounters a _____ that causes _____

- The process by which _____ becomes _____ different

Methods of Reproductive Isolation

Reproductive isolation occurs when _____ of the _____ can no longer _____ together _____

- _____ restricts _____

Two methods of reproductive isolation:

1. _____

2. _____

Pre-zygotic Isolation

A **zygote** refers to a _____

Pre-zygotic isolation occurs _____ the _____ is _____ using one of the following two methods:

1. _____ 2. _____

Behavioral Isolation

Behavioral isolation occurs due to a _____ developing differing _____
that _____

Examples:

-
-

Geographic Isolation

Geographic isolation occurs when a _____ is _____
_____ (_____, _____, _____, etc.)

Two types of geographic isolation:

1. _____
2. _____

Allopatric speciation occurs when a _____ separates a

- _____ means _____
- _____ means _____

Example:

- Both are _____ and _____ from each other

Sympatric speciation occurs when a new _____ from a single
_____ species while _____ the _____
_____ location

- _____ means _____
- _____ means _____

Example:

Post-zygotic Isolation

Post-zygotic isolation occurs _____ the _____ has been
_____ by a _____

Two types of post-zygotic isolation:

1. _____
2. _____

- **Zygote mortality** occurs when a _____ an _____
but the _____ immediately _____
- **Hybrid sterility** occurs when _____ different _____ and
_____ but that _____ is
_____ (_____)
 - Example: male _____ + female _____ = _____

Artificial Selection

Artificial selection occurs in _____

- _____ belong to the _____
- Each _____ could reproduce and create _____ offspring
- Certain _____ characteristics keep different _____ from
_____ (_____, _____, etc.)