

**The Theory of Evolution  
PowerPoint Guide**

Name \_\_\_\_\_  
Date \_\_\_\_\_ Per. \_\_\_\_\_



1. *How do you think the pepper moths on the title slide represent evolution?*

2. A \_\_\_\_\_ consists of interbreeding populations of organisms that can produce healthy, fertile offspring.

3. *Put the above definition in your own words:*

4. Most \_\_\_\_\_ in a population results from \_\_\_\_\_ and \_\_\_\_\_ of existing alleles.

5. *How might variations in a population be beneficial?*

Some \_\_\_\_\_ are adaptations that increase a population's chances for \_\_\_\_\_ and \_\_\_\_\_.

6. A \_\_\_\_\_ is a particular role that an organism plays in a community.

7. Fossils are the \_\_\_\_\_ or \_\_\_\_\_ of ancient organisms.

**8. Natural Selection:**

- There is \_\_\_\_\_ within populations.
- Some \_\_\_\_\_ are \_\_\_\_\_.
- Not all \_\_\_\_\_ produced in each generation can \_\_\_\_\_.
- Individuals that \_\_\_\_\_ and \_\_\_\_\_ are those with \_\_\_\_\_.

**9.** What is Darwin's theory that proposes new species evolve as the genomes of two populations differentiate over enormous spans of time? \_\_\_\_\_.

**10.** *Rewrite this theory in your own words:*

**11.** What theory suggests that populations remain genetically stable for long periods of time, interrupted by brief periods of rapid genetic change?

\_\_\_\_\_.

**12.** *Rewrite Gould and Eldridge's theory in your own words:*

**13.** What is one type of evidence that evolution occurs?