

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Pre-Lesson Worksheet **Answer Key**

The questions below pertain to the tiger shown in this photograph.



Image source: 2004 Monika Betley, Wikimedia Commons  
[http://commons.wikimedia.org/wiki/File:Panthera\\_tigris\\_sumatran\\_subspecies.jpg](http://commons.wikimedia.org/wiki/File:Panthera_tigris_sumatran_subspecies.jpg)

1. What determines the color of the tiger's coat?

**Genes, DNA**

2. If the DNA sequence were to change, what would this be called?

**Mutation**

3. Explain how a mutation could cause this tiger to have a white coat instead of an orange coat.

**A mutation to the gene that codes for the coat color to be orange could cause the coat to change to white.**