**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%3APanthera_tigris_sumatran_subspecies.jpg)

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

Genes, DNA

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

Mutation

1. 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.