**Pre-Lesson Worksheet**

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?
2. If the DNA sequence were to change, what would this be called?
3. Explain how a mutation could cause this tiger to have a white coat instead of an orange coat.