Name:	Date:	Class:
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## **Post-Lesson Worksheet**

The tiger below is colored differently than the one seen at the beginning of class. The white tiger's coat color was due to a mutation.



2009 Tony Hisgett, Wkimedia Commons http://commons.wikimedia.org/wiki/File:White Tiger 6 (3865790598).jpg

- 1. Explain what a mutation is.
- 2. Explain how this mutation caused this tiger to have a white coat instead of an orange coat.
- 3. Which of these would most likely cause this mutation?
  - A. the placement of ribosomes on the endoplasmic reticulum
  - B. the insertion of a nucleotide into DNA
  - C. the movement of transfer RNA out of the nucleus
  - D. the release of messenger RNA from DNA
- **4.** The DNA sequence for the orange tiger and the mutated DNA sequence of the white tiger are shown below. What would the mRNA codons be for the mutated tiger?





## Mutated DNA code



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