**The Changing Tree of Life Model:**

**The Current Model**

In this activity, you will learn about the current tree of life model. Follow the instructions and answer the questions below.

**1990**

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| ***Read and follow the prompt for “1990-A”*** |

**1. After revising your model of organism groupings using the simulated DNA sequences, be prepared to discuss the following questions:**

1. What are the main groups in your model?
2. What information did you use to group the organisms?
3. How did the new information factor into the revision of your model?
4. What are the evolutionary relationships between the groups?

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|  | ***Open the envelope labeled “1990 - B”***  |

**2. Draw/describe Carl Woese’s tree of life model. Indicate the 3 major “domains” of organisms.**

**3. Answer the following questions about Carl Woese’s tree of life model:**

1. What new evidence prompted Woese to revise the tree of life model?
2. What are the major groups of organisms in Woese’s tree of life model?
3. What are the major differences between Whittaker’s and Woese’s groupings of organisms?
4. What does Woese’s model indicate about the evolutionary relationships between the major groups of organisms?
5. How does this differ from the evolutionary relationships indicated by Whittaker’s model?