Design an Experiment Using Avida-ED
In last week’s lab, you worked with your group to become acquainted with the Avida-ED software and to brainstorm about questions you could ask and answer using this research tool. Work with your group to conduct the experiment you designed and analyze your outcomes. Turn in your work (1 copy per group/pair) by the end of lab period today.

____ (2pts) 1. What question are you testing in Avida-ED?

____ (2 pts) 2. In a sentence, state your hypothesis (or your prediction).

____ (3 pts) 3. Describe your experimental methods.
Describe in words or use a model to communicate your experimental design and methods.

____ (3 pts) 4. Raw Data, Field Notes, and Observations.
Attach your raw data that you collected throughout your experiment. Include notes about your observations, troubleshooting, etc., that took place during your experiment.

____ (3 pts) 5. Results.
Summarize your data in tables and/or graphs and attach to this handout. Include titles, legends, and other descriptors of your summary data. Describe formulas and statistical methods, if applicable.

____ (3 pts) 6. Conclusions.
What were you able to conclude from your investigation? Did your results support your predictions/hypotheses? Explain.
(4 pts) 7. Reflections.
a. Did you experience any difficulties using the software? Explain.

b. What did you learn about evolution by using the Avida-ED software?

c. Evolution is a complex process. What specific evolutionary concepts did Avida-ED help you clarify in terms of your personal understanding? Explain.

d. What would you like to do next (or differently) if you had more time to work with Avida-ED?

(20 pts) Total