<u>Coyotes and Jackrabbits Reflection Questions</u>

The data you gathered from the simulations tells a story about jackrabbit and coyote populations. This first set of questions refers to the simulation you did as an entire class. Look at the class data to help you answer these questions…and use complete sentences when there is space to do so.

1. Estimate the carrying capacity of this environment for jackrabbits. _____

Estimate the carrying capacity for coyotes. _____

2. Which generation was the largest for the jackrabbits? _____

Which generation was the largest for the coyotes? _____

3. Describe what happened to the number of jackrabbits during the study. (Tell when the population peaked/crashed…use data in your answer!) _____

_____

_____

_____

_____

4. Describe what happened to the number of coyotes during the study. (Use data in your answer!) _____

_____

_____

_____

_____

5. When the jackrabbit population decreased, what was the cause? _____

_____

_____

6. When the coyote population decreased, what was the cause? _____

_____

_____

7. Did the coyote and jackrabbit populations peak at EXACTLY the same time? Why or why not?

_____

_____

_____

Questions 8 and 9 refer to the simulation that was done by your team. Look at your team's data and your notes to help you answer these questions.

8. Estimate the carrying capacity of this environment for jackrabbits. _____

    Estimate the carrying capacity for coyotes. _____

9. Which generation was the largest for the jackrabbits? _____

    Which generation was the largest for the coyotes? _____

For questions **10** and **11**, **compare and contrast** the data collected during the first demonstration with the data collected by your team. Be specific and use quantitative observations (data!) in your answers.

    10. What was similar about the two sets of data? _____

    _____

    _____

    _____

    11. What were the differences between the results of the two simulations? _____

    _____

    _____

    _____

12. Although the simulation was controlled, there were still some possible sources of error which may have caused the results to be inaccurate. List three possible sources of error **AND** how to avoid each of them in future:

    (1) _____

    _____

    _____

    _____

    (2) _____

    _____

    _____

    _____

    (3) _____

    _____

    _____

    _____