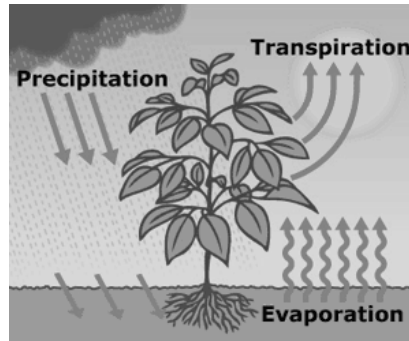


Name: _____ Date: _____ Period: _____

Ready, Set, Grow

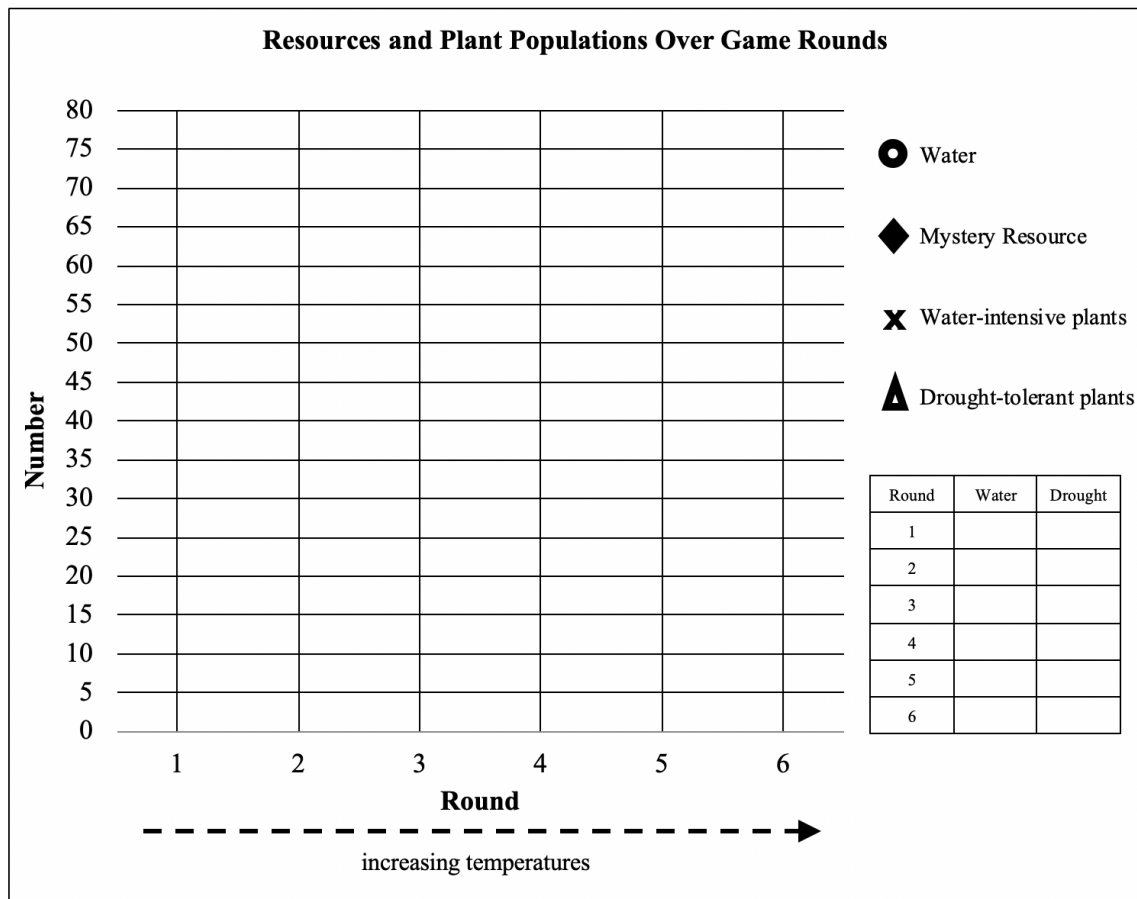
Background

Using words, arrows, or drawings, annotate the diagram below to indicate how these processes (precipitation, transpiration, and evaporation) will be affected by increasing temperatures and changing precipitation patterns.



Game Graph

Using the symbols indicated in the legend, denote the number of water cards, mystery resource cards, water-intensive plants, and drought-tolerant plants at the beginning of each round. At the end of the game, connect the corresponding symbols with a line.



Results

As temperatures increased and water availability was reduced in Bernalillo County:

1. Which plant population tended to have more individuals during most of the game rounds?
a. Water-Intensive Plants b. Drought-Tolerant Plants c. Neither
2. Which plant population had more individuals at the end of the game?
a. Water-Intensive Plants b. Drought-Tolerant Plants c. Neither

Discussion

3. How will plant populations be affected by increasing temperatures and reduced water availability in the future?

4. How will increasing temperatures and reduced water availability affect other parts of the ecosystem?

5. List the resources plants need. Circle the resources that were modeled in our game.

6. Are the resources circled in question 5 limiting resources for plant growth? Explain your answer.

7. What is the mystery resource in our game? Discuss with a small group and complete the statements below.

I argue that the mystery resource is:

The evidence I have to support this claim is: