



Unit 5 Section 1 Lesson 2: The Solution, or Part of the Problem?

Simulation Directions

Handout 2

Counter/Recorder:

1. Record the number of individuals in each species A through C on Handout 5, "Data Sheet B: Population Numbers" for Round 1.
2. "X" out the Population Numbers for Round 1 for species D (non-native species).
3. Species D: Tape or tie index through pinkie fingers (mitten style) together leaving the thumb free in preparation for joining the simulation in round three. Mittens may be used in place of tape if taping children's hands is a problem in your area.

ROUND 1:

Native Animals:

1. Use only your mouth part to pick up food, or die! (be disqualified)
2. You can pick up any type of food. Remember, you want to get a lot of food.
3. Pick up only one piece of food at a time and put it in the cup. You can use your free hand to take the food off your mouth part and put it in the cup.
4. If your cup falls over, you lose all of that food.
5. Feed for one minute only.
6. Give your cup to your counter.

Counter/Recorder:

1. Count and record the number of pieces of food each animal ate and record on Handout 3, "Data Sheet A: Number of Food Pieces Eaten."
2. Add up the total pieces of food eaten by that species.
3. Record the number of pieces of food eaten for each population on Data Sheet A.
4. Mark an "X" over the lowest number and circle the highest number.

Teacher:

1. Remove the player with the lowest food eaten from its population.
2. Add one animal to the population that ate the most.

Counter/Recorder:

1. Write the number of animals in each population on Handout 5, "Data Sheet B: Population Numbers" for Round 2.
2. "X" out species D (non-native species).

ROUND 2:

1. Repeat steps 1 through 6.
2. Recorder: Write the number of species in each population on Handout 5, "Data Sheet B: Population Numbers" for Round 3, and include species D (non-native species)
3. Add the name of the new team member to Handout 4, "Supplemental Data Sheet" and cross that name off the original Handout 3 Data Sheet A. Remember to include the number of food pieces this player gets in the correct species total at the end of Round 2.

ROUNDS 3 through 9:

1. Repeat steps 1 through 6.
2. Recorder: Write the population number in the space appropriate to the upcoming round prior to the start of each round.
Note: At the end of each round, add the name of any new team members to the Handout 4 Supplemental Data Sheet and cross that name off the original Handout 3 Data Sheet A. Remember to include the number of food pieces this player gets in the correct species total at the end of each round.