Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Food Web Construction and Manipulation

Purpose

SWBAT construct an energy pyramid using appropriate trophic levels.

SWBAT create a food web showing the transfer of energy.

SWBAT discuss the implications of species extinction in the web.

Procedure

1. Read the squares representing the individuals in the web.

2. Outline the transfer of energy by placing the individuals in the correct trophic levels.

3. On a separate sheet of paper, create a food web using arrows in the appropriate direction in order to show the flow of energy from the sun to the top of the food chain.

3. When your web is completed, answer the following questions.

Analysis Questions

1. If the Fish were to become extinct, how would their death impact the individuals that ate them?

2. If the Fish were to become extinct, how would it affect the individuals that the Fish preyed upon (those that the Fish ate)?

3. If the Grass were to become extinct, how would their death impact the individuals that ate them?

4. If the Hawk were to become extinct, how would it affect the individuals that the Hawk preyed upon (those that the Hawk ate)?

5. If you were to add a different animal into the food chain:

a. What would it be?

b. What trophic level would it be placed in?

c. What would it eat?

d. What individuals in the food chain would eat your animal?