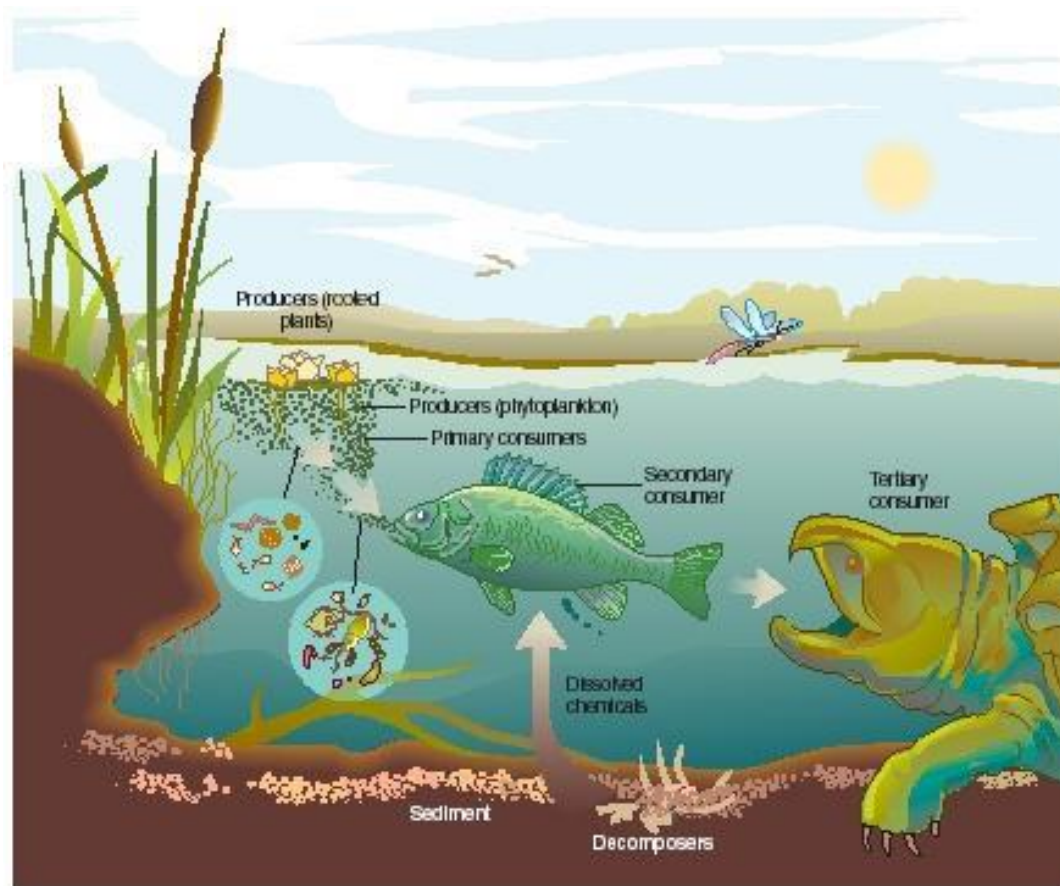


Inquiry Question

What does the circle of life mean and how can I demonstrate it?

Name: _____ Date: _____



All organisms within an ecosystem need energy to survive and are interconnected. How does energy flow between these organisms and how are the species connected? What are these interactions?

A producer uses the energy of the sun to make food energy that is then consumed. There are primary, secondary and tertiary consumers. When organisms die then it is the role of decomposers to break them down to provide the producers with the nutrients they require. It is the circle of life.

A food chain helps to describe these connections. More complicated food chains found in nature are called food webs. They show all of the interconnections.

In this project, you will design a game to illustrate the circle of life for different ecosystems.

General Instructions

The goal of this project is to gain a better understanding of interactions within ecosystems.

Materials you'll need:

- internet
- paper
- coloured pencils
- pencil

Ideas and Hints:

- Watch the following video on the circle of life, food chains and food webs:
<https://www.youtube.com/watch?v=hLq2datPo5M>
- Create a game that illustrates the circle of life.
 - Include organisms from at least three different ecosystems.
 - Include the five categories of interactions (both terminology and example organisms).
 - It should be clear how the different organisms fit into the food chain for each of the ecosystems. Draw food chains for the different ecosystems as a reference.
 - Show how energy is involved in these interactions.
- Provide an explanation of how the game is played, demonstrating how the circle of life works. Include game instructions and give sample play examples.
- You should play the game to show its success.

Project submission:

Once you have finished your assignment submit your completed work to the Biology project drop box.