Stream Food Webs

Learning Module #13

**Opening Activity**

Question 1:

Question 2:

|  |  |
| --- | --- |
| Producers | Herbivores |
|  |  |
| Omnivores | Carnivores |
|  |  |

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**Stream Food Web Activity**

Directions

1. Use scissors to cut the pictures/squares apart for the stream food web ecosystem (p. 5).

**NOTE**: The pictures are NOT drawn to scale. Some organisms are microscopic (e.g., algae), and some organisms in the same category are different sizes (e.g., fish are not all the same size).

1. Sort pictures/squares in groups according to:
   1. Producers (creates its own food from sunlight)
   2. Herbivores (eats producers)
   3. Carnivores (eats animals)
   4. Omnivores (eats producers and animals)
2. Using colored pencils, shade each group with a different color. Create a key here:

|  |  |
| --- | --- |
| **Group** | **Color** |
| Producers |  |
| Herbivores |  |
| Carnivores |  |
| Omnivores |  |

1. Using a piece of paper and the pictures/squares, create two separate food chains as they would occur in the stream ecosystem. Draw arrows to show that energy is passed from one organism to the other as the organism is eaten.
2. Once you have created your two food chains, compare with a partner. Then, raise your hand and have the instructor check your food chains.
3. Now, use a new piece of paper and ALL of the pictures/squares to create a stream food web. First, arrange all of the pictures/squares on the sheet of paper. Once you are satisfied with the arrangement, you can tape them down. Then, draw arrows to show how energy is passed from one organism to another.
4. Once you have created your food web, compare with a partner. Then, raise your hand and have the instructor check your food web.
5. Answer the questions below.

Stream Food Web Questions

1. What are the two main types of producers in stream food webs?
2. Are there any organisms in the stream food web that you aren’t familiar with/haven’t’ heard of before? If so, which ones?
3. Do all organisms in the stream food web actually live in the water? If not, give two examples of organisms that live outside of water.
4. What might happen to the stream food web if all of the trees were taken away from the edge of the stream? State two organisms that would be directly affected. State two organisms that might be indirectly affected.
5. What might happen to the stream food web if all of the birds (heron, kingfisher) were to die? State two organisms that would be directly affected. State two organisms that might be indirectly affected.
6. Are there any other interesting things you notice about the stream food web? Write them here.

|  |  |  |
| --- | --- | --- |
| **Dragonfly larvae**  (insect larvae)  Dragonfly Nymph – Sean Twiddy&#39;s Bughaus Productions  Carnivore – eats insect larvae | **Caddisfly larvae**  Identification Guide to Freshwater Macroinvertebrates(insect larvae)  Herbivore – eats small bits of leaves | **Stonefly larvae**  (insect larvae)  Herbivore – eats leaves it shreds |
| Printable Mayfly Coloring Page - ColoringBay**Mayfly larvae**  (insect larvae)  Carnivore – eats algae off of rocks | **Crawfish - Crawfish Clip Art Black And White PNG Image | Transparent PNG  Free Download on SeekPNGCrayfish**  Omnivore – eats algae, insect larvae, and leaves | **Creek chub**  (small fish)  Carnivore – eats insect larvae |
| **Tulip poplar leaves**  Genus Liriodendron, L. (Tulip Tree) | ClipArt ETC  Producer | **Red maple leaves**  /var/folders/9r/f_58qgyx3rzbt44k4mwmkfn80000gn/T/com.microsoft.Word/Content.MSO/30C5BA7B.tmp  Producer | **Heron**  Vector Black And White Stock Images Credit - Great Blue Heron Transparent  PNG - 1000x1000 - Free Download on NicePNG  Carnivore – eats fish |
| **Snail**  Snail - Snail Clipart Black And White, HD Png Download - kindpng  Herbivore – eats algae off of rocks | **Spider**  Carnivore – eats insect larvae after they have grown into adults and emerged | **Kingfisher**  /var/folders/9r/f_58qgyx3rzbt44k4mwmkfn80000gn/T/com.microsoft.Word/Content.MSO/2BC4B333.tmp  Carnivore – eats small fish, crayfish |
| **Spotted bass**  (large fish)  Carnivore – eats small fish, insect larvae, crayfish | **Algae**    Producer | **Largemouth bass**  (large fish)  Carnivore – eats small fish, crayfish, snails |

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**Stream Food Webs – Guided Notes**

Directions:

* Write down anything from the PowerPoints that is brown, bolded, and underlined.
* Feel free to take additional notes!

Basal Resources

Algae – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Leaves -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Macroinvertebrates -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Macroconsumers -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Terrestrial organisms

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**Riverwebs Documentary Viewing and Discussion**

Directions

As you watch the documentary write:

* One (or more) things/topics you find cool or interesting
* One (or more) questions you have

Topics/things you find cool or interesting:

Questions you have:

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**Closing Activity**

Question 1:

Question 2: