

## ECO-CHALLENGE IDEAS: Use the links below...

- Create a parody...(5 points), sing the song (10 points), publish the song (15 points)

- EXAMPLE: [http://foodsafety.ucdavis.edu/html/audio/dont\\_get\\_sicky\\_wit\\_it.html](http://foodsafety.ucdavis.edu/html/audio/dont_get_sicky_wit_it.html)

- Read an environmental article and type a summary/reflection (5 points..max is 2)

- EXAMPLES:

<http://bostonglobe.com/lifestyle/travel/2013/03/03/fly-fishing-new-brunswick-legendary-miramichi/QfcAxV7AgrTNoSkRUXhOGI/story.html>

<http://www.cbc.ca/news/canada/nova-scotia/story/2012/11/02/ns-salmon-farm-withdrawal.html>

- Advocate for a cause through writing and submit...(10 points - Make sure to print)

EXAMPLE: [http://www.worldfishingnetwork.com/uft/entry-form.php?town-name=Miramichi&prov\\_state=NB](http://www.worldfishingnetwork.com/uft/entry-form.php?town-name=Miramichi&prov_state=NB)

- Join an environmental group and get newsletters...(5 points - print the e-mail)

- EXAMPLE:

<http://asf.ca/main.html>

# An Organism's Niche

- The unique role of a species within an ecosystem is a **niche**
  - An **ecosystem** is all of the organisms living in an area together with their physical environment
  - It includes their physical home, the environmental factors necessary for survival, and all interactions with other organisms
  - It is different than a **habitat** (where an organism lives)

# Ways in Which Species Interact

- Interactions are categorized by how one population interacts with another
- These interactions depend on whether they harm or help one another
- Some interactions are direct, others are indirect
- This is still being studied to better understand its complexities

# Competition

- A relationship in which different individuals or populations attempt to use the same limited resource
- Each individual can be harmed by the competition
- Can occur within or between species
- Ex. Fox and coyote compete for the same prey

# Competition

## Indirect Competition

- Some species may never come in contact with each other and still compete
- Ex. One type of insect during the day and another at night

## Adaptations

- Some species reduce competition with each other by adjusting their niche
- This is called *niche restriction*

# Predation

- An organism that feeds on another organism
- The organism that is fed upon is called the **prey**
- Ex. Coyote and deer
- Many species have evolved some mechanisms to avoid or defend against predators

**HW:** Assignment on Food Chains/Webs is due

ECO-CHALLENGES...150 attempted by April 2