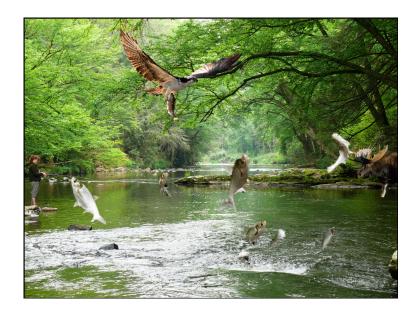
## Chapter 13 Principles of Ecology

- 13.2 Biotic and Abiotic Factors
- I. An ecosystem includes both biotic and abiotic factors-
  - A. Biotic factors are <u>living things that play a</u> role in the ecosystem
    - 1. plants
- 3. animals
- 2. <u>fungi</u>
- 4. bacteria
- B. Abiotic factors are nonliving factors:
  - 1. moisture
- 4. sunlight
- 2. temperature
- 5. soil

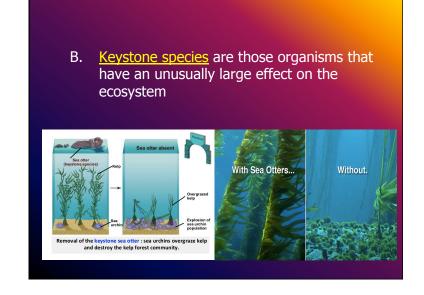
3. wind



- II. Changing one factor in an environment in an ecosystem can affect many other factors-
  - A. Biodiversity is the <u>variety of living things in</u> an ecosystem.
    - 1. The <u>higher</u> the biodiversity, the <u>more stable</u> an ecosystem is.







Think - Pair - Share

3 minutes to think and write an answer

4 minutes to pair (2 minutes per partner)

5 minutes share with the class

- 1. Pick an ecosystem that is familiar to you and describe its <u>abiotic</u> and <u>biotic</u> factors.
- 2. How would the removal of a <u>keystone species</u> affect an ecosystem's <u>biodiversity</u>?
- Explain how a change in an <u>abiotic factor</u> such as sunlight would affect <u>biodiversity</u>.
- 4. Humans are sometimes described as being a <u>keystone species</u>. Why does this label fit or not fit humans?