

## AP Biology 050 – Populations Video Review Sheet

[www.bozemanscience.com/050-populations](http://www.bozemanscience.com/050-populations)

1. Define symbiosis:
2. Explain the relationship(s) between the clown fish and the sea anemone/algae?
3. The Symbiosis can \_\_\_\_\_ or \_\_\_\_\_ an ecosystem.
4. Ecosystems are kept in check by:
5. If they are not in check a c\_\_\_\_\_ can happen.
6. Fill in the matrix of Interactions:

Effect on X	Effect on Y	Type of Interaction	Example explained....(name the organisms and their interactions)
			2 examples here:

7. How are the wolves and elk an example of a negative feedback loop?
8. Kudzu, once introduced into a new ecosystem, is unstoppable until now...what has happened?

**AP Biology 055 – Biodiversity****Video Review Sheet**

[www.bozemanscience.com/055-biodiversity](http://www.bozemanscience.com/055-biodiversity)

1. E.O. Wilson – the \_\_\_\_\_ of Biodiversity.
2. Ecosystems: large areas where the \_\_\_\_\_ is the same, but they are in constantly in flux as the environment changes.
3. Keystone species defined:
4. Define biodiversity and the three aspects of it:
5. What is a monoculture?
6. How is farming contributing to a decrease in biodiversity?
7. Have we identified all the species on the planet?
8. Jaguar:
  - a. How many different species does the jaguar feed on?
  - b. It has a \_\_\_\_\_ impact on the population.
9. Sea Otter:
  - a. What is the connection between sea otters and kelp forests?
  - b. What organisms depend on the kelp forest?
  - c. What was the Orca connection to kelp forests?
10. Summarize E.O. Wilson's quote on biodiversity in your own words:

## AP Biology 051 – Ecosystem Change

### Video Review Sheet

[www.bozemanscience.com/051-ecosystem-change](http://www.bozemanscience.com/051-ecosystem-change)

1. Give a short summary of his introduction piece relating to jet traffic, temperature and the short experiment:
  
2. What is climate?: \_\_\_\_\_ over a long period
  
3. Ecosystem change driven by Humans: Global Warming example:
  - a. What did the Average Temperature Map from 1950-1981 show?
  
  - b. As permafrost starts to melt, what gas is given off?
  
  - c. How is the arctic ecosystem change above an example of positive feedback?
  
  - d. Describe the water vapor increase and how it is also an example of positive feedback:
  
  - e. It is predicted that:
    - i. if there is a .5 degree Celsius over the next 100 years we could have damage to:
  
    - ii. If there is a 1-degree change, coral reefs will become \_\_\_\_\_.  
  
This means the coral will extrude the \_\_\_\_\_. Additionally \_\_\_\_\_% of the global ecosystems will become transformed. It will impact the areas near the \_\_\_\_\_ more.
  
    - iii. If there is a 2-degree change, what are the three predicted results?
  
    - iv. How many species could become extinct if there is a 3-degree change?
  
  - f. Species simply can't evolve \_\_\_\_\_ enough.

4. Ecosystem change driven by Geologic Factors: Continental Drift example:
  - a. Biogeographical changes: changes in the \_\_\_\_\_ that are living on continents.
  - b. As the continents drifted, they change their \_\_\_\_\_ and thereby their ecosystems.
  - c. What group of organisms did he use as an example?
5. Ecosystem change driven by Meteorological Factors: El Nino example:
  - a. El Nino happens every:
  - b. You get a warming of the waters in the:
  - c. What two things happen to the marine iguanas during El Nino as a result of the decrease in the algae?