

## Earth/Environmental Science Homework & Test Review

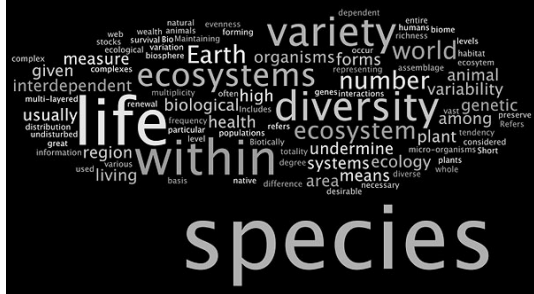
**Week 4: April 27<sup>th</sup> to May 1<sup>st</sup>**

**DUE DATE: Friday, May 1<sup>st</sup>**

**Weekly Reminders Checklist:**

- Test corrections for Climate & Global Warming Test are due on Thursday April 30<sup>th</sup>
- Have you checked PowerSchool to see if you have any missing assignments?

**Vocabulary:** Fill in the missing areas on the table below using your textbook, class activities and any other resources you find helpful.

Vocabulary Word	Definition	Example/Application/Diagram
Biosphere	<b>All organisms on the Earth as well as the environments in which they live</b>	<b>Plants and animals</b>
Ecosystem	<b>A community of living and nonliving things in an environment.</b>	<b>See Question 3</b>
Biotic	<b>Living things in an ecosystem</b>	<b>plants, animals, fungi, algae, and bacteria</b>
Abiotic	<b>Non-living things in an ecosystem</b>	<b>Sunlight, temperature, water, wind or water currents, air, soil</b>
Biome	<b>A very large ecosystem or collection of ecosystems with similar biotic and abiotic factors</b>	<b>Desert, Aquatic, Forest, Grassland, and Tundra</b>
Food Chains	<b>Feeding relationships in an ecosystem</b>	<b>Green plants ➤ Grasshopper ➤ Frog ➤ Bird ➤ Hawk</b>
Biodiversity	<b>Measure of the variety of organisms present in different ecosystems</b>	

**Key Questions from the Week:** Answer the questions below pertaining to this week.

1. How have changes in atmospheric composition contributed to ocean acidification?
  - 30-40% of the CO<sub>2</sub> released by humans into the atmosphere dissolves into the oceans causing a decrease in pH**
2. How does ocean acidification effect ocean life?
  - Bleaching of coral reefs (unhealthy → death)**
  - Inhibit shell growth**
  - Possible link to reproductive disorders in some fish**

3. Fill in the table below with the three main scales of ecosystems and an example of each:

	Scale	Example
Small	Micro	pond, puddle, tree trunk, under a rock etc.
↓	Messo	Forest or a large lake
Large	Biome	Rainforest

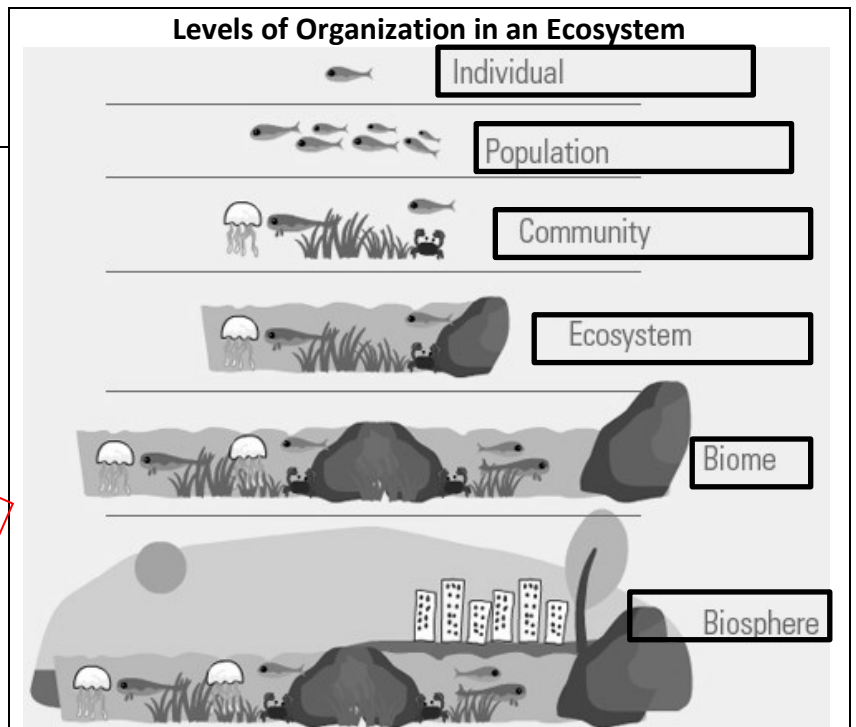
4. What are the five basic needs of all living things?

1. Sunlight	4. Food (nutrients)
2. Water	5. A habitat with the right temperature
3. Air	

5. List the five major types of biomes along with a brief description of each.

1.	Desert	Little or no rainfall. Shallow soil. Plants conserve water and animals try to avoid the heat.
2.	Aquatic	Freshwater or Marine types. Depend on abiotic factors: sunlight, temperature, salinity etc.
3.	Forest	Coniferous, Deciduous, and Rainforest are different types. Low Rain → High Rain
4.	Grassland	Savanna and Temperate are different types. Rich soil, dominated by grasses
5.	Tundra	Coldest of all! Poor soil.

**Diagram for the Week:** Label the six different level of organization in an ecosystem in the diagram to the right. → → →



**Research Question for the Week:** Conduct your own research using the library and internet resources for the following....

Pick one of the biomes from question 5 and research the following information:

1. Name of Biome: \_\_\_\_\_ *Answers will vary*

One specific example & its location for this type of biome:

2. Example: \_\_\_\_\_

3. Location: \_\_\_\_\_

4. Fun Fact about this type of biome: