

April 28, 2015

### Warm-Up

Today you will need your pencil and notebook.  
 Test Corrections due Thursday.  
 Homework due Friday.

**Review:** There are about 10 blades of grass per small square. How many blades of grass are in the following ecosystem map? *Hint: Watch out for "partial" squares*

**About 92**

## What are the five basic needs of all living things?

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

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## Close Your Eyes

- Imagine an animal, anything you want as long as it lives in the wild (not a domesticated animal)
- What does it look like? How does it move?
- Now imagine this animal interacting with others of its kind. Does your animal live alone or in a group? How does it take care of its young? How does it interact with other adults of its species?
- Next think of other types of living things your animal might interact with. What does it eat? What eats it? Does it depend on grasses or trees for shelter or making a nest? Does it compete with other types of animals for food?
- Next think of the non-living things that your animal interacts with. Where does it live? Where does it find water? What type of soil does it love on? What is the weather like where it lives?
- Finally, think about your organism in relationship to the whole planet Earth. Imagine a picture of the Earth from space. Where on the planet does your animal live? How does its life affect the lives around it? How does its life affect you?
- Open your eyes!

## Ecologists

- You zoomed out from one organism to the entire planet
- Ecologists who study organisms and their environment think about organisms and their environment at different levels of the "zoom"
- Some study small groups of the same kind of animal; others whole ecosystems; others the whole planet!

## Levels of organization in an ecosystem

Homework

## Biome

- **Definition**
- A very large ecosystem or collection of ecosystems with similar biotic and abiotic factors
- **Examples**
- Desert, Aquatic, Forest, Grassland, and Tundra

Homework

5 major types of biomes	
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.

### Activity – Biomes!






- **Part 1:** Biomes of North America
- **Part 2:** Plants in Biomes
- **Part 3:** Temperature and Precipitation in Biomes

• **\*\*Attach in your Notebook!\*\***

- Part of our next notebook check

### Part 1: MAP

### Part 2: To Plant or Not to Plant?

<p>Creosote Bush</p> 	<p>Flowering Dogwood</p> 	<p>Lichen</p> 
<p>Bluestem Grasses</p> 	<p>Orchid</p> 	<p>Spruce</p> 