**Biology:** the study of lifeand livingthings (from the Greek “\_\_\_\_\_\_\_\_” for life and “\_\_\_\_\_\_\_\_\_\_”for the study of)

**Ecology:** the branch of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_that studies the inner-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ things in an environment.

Greek Lesson! Since biology is the study of living things what is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_the study of?? Eco meaning…… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

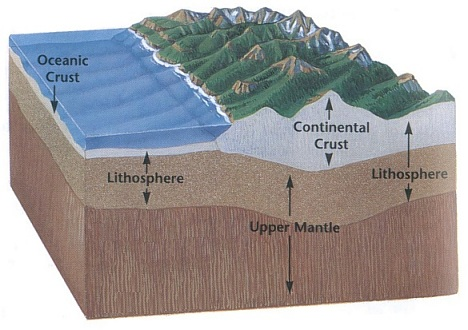
**Life on Planet Earth**

* In our \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system, only a single planet - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_– is teeming with millions of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Earth is home to countless \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_types
* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the place where organisms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Habitats may be\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, on the land, or\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, in the water

**The Spheres of Earth**

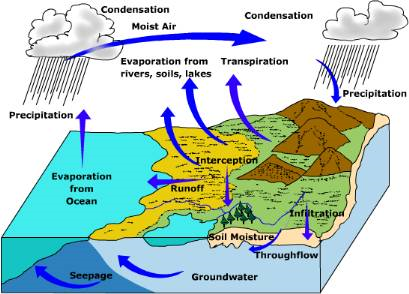
* Earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the layer of gases extending \_\_\_\_\_\_\_\_\_\_\_\_\_ for hundreds of kilometres
* Made up of about 78% \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_gas and 21% \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_gas
* Remaining ‹1% of the atmosphere includes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, water vapour, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dioxide, and variety of other gases
* Without atmosphere, most of Earth’s species would be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_to \_\_\_\_\_\_\_\_\_\_\_\_\_

**Lithosphere**



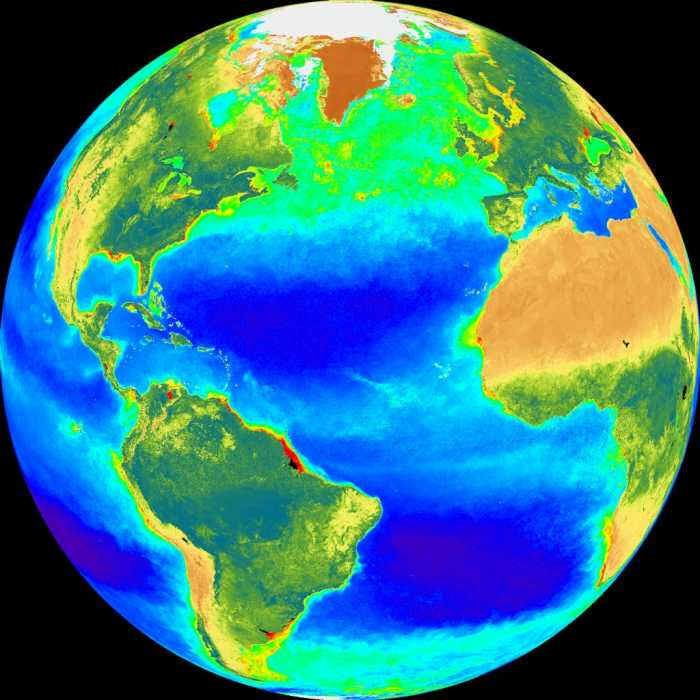
* The lithosphere is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_outer layer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of Earth
* Consists of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_that make up the mountains, ocean floors, and the rest of Earth’s solid landscape
* Ranges from about \_\_\_\_\_\_\_\_\_\_\_\_\_to \_\_\_\_\_\_\_\_\_\_\_\_\_in thickness

**Hydrosphere**



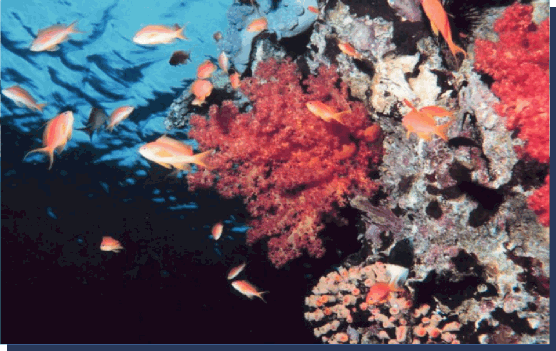
* Hydrosphere consists of all the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_on, and below Earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Includes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, lakes, ice, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and clouds
* Nearly all the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on Earth (97%) is contained in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Biosphere-** The part of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and its atmosphere in which \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms exist or that is capable of supporting\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Ecosystem** – term used to describe the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ among the many species \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in an environment and the relationships among those \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the non-living components of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* The Greek word “\_\_\_\_\_\_\_\_” means nature. The word “\_\_\_\_\_\_\_\_\_\_\_\_” refers to interactions between things.



* An ecosystem can be large, like an\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and a jungle.
* Or it can be small, like a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or a patch of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_in an empty lot.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_involve both living (\_\_\_\_\_\_\_\_\_\_\_\_) and non-living (\_\_\_\_\_\_\_\_\_\_\_) factors
* Abiotic factors – a physical environment that is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Water, wind, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, sunlight, etc.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_factors are those caused by the \_\_\_\_\_\_\_\_\_\_\_\_\_ and roles of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ things

**Sustainability of Ecosystems**

* Most natural \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are sustainable, which means that they maintain a relatively \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_set of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ over a long period of time
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_activities change \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ features of an ecosystem making it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Sustainability - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_to maintain natural \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_conditions or processes without\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, weakening, or loss of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Biomes**

* Broad \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_region with a characteristic array of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Examples:

1. Tropical \_\_\_\_\_\_\_\_\_\_\_\_\_forest

2. Desert

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Estuaries

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Population**

* A population is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of living things of the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_living in the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Individuals of same species
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dynamics
  + Reproduction rate
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_rate

**Community**

* Each \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is made up of one or more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. A community is all the organisms living in a **\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_.**
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_and nonliving parts are always \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* One small \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_can have an effect on everything else is that area.
* This is called **“\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_”.**



**Predator/Prey Interactions**

* Where one organism **(the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ )** acquires its needed resources by\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ another organism **(the\_\_\_\_\_\_\_\_\_\_\_\_\_). Example \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Symbiosis Interaction**

A form of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_interaction** in which a**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ species** and **symbiont** maintain a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_association. **Example** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Organism**



* a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_organism that has \_\_\_\_\_\_\_\_\_\_\_\_\_\_ independently

Behaviours

* + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Mating