**Study Guide: Ecology 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Essential Questions:**

* Is it ever okay to harm the environment?  Why?
* How and why do ecosystems change?
* How do you adapt to your environment?

**Vocabulary:**

biome

terrestrial

aquatic

adaptation

deciduous forest

desert

grassland

taiga (coniferous) forest

climate

tropical rainforest

tundra

freshwater

marine

estuary

algal bloom

eutrophication

ecological succession

pioneer species

primary succession

secondary succession

**What You Need to Know:**

1. Describe characteristics of the major terrestrial biomes:

|  |  |  |  |
| --- | --- | --- | --- |
| **Biome** | **Climate** | **Plants** | **Animals** |
| Deciduous forest |  |  |  |
| Desert |  |  |  |
| Grassland |  |  |  |
| Taiga |  |  |  |
| Tundra |  |  |  |
| Tropical rainforest |  |  |  |

1. Give an example of a structural adaptation and how it helps an organism survive a particular biome.
2. Give an example of a behavioral adaptation and how it helps an organism survive a particular biome.
3. Describe how eutrophication can occur and how it alters the ecosystem.
4. Describe how humans might affect water supply/quality.
5. Describe how humans might affect air quality.
6. Describe how human activity contributes to global warming.