**Environmental Science Study Guide: Biomes**

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| **Topic** | **Chapt.** | **Content** | **Vocabulary** |
| Intro to Biomes | 6.1 | * What is a biome?
* What are two types of precipitation?
* How do temperature and precipitation determine which plants grow in an area?
* How do latitude and altitude affect which plants grow in an area?
 | BiomeClimateLatitudeAltitudePrecipitation  |
| Forest Biomes | 6.2 | * Three characteristics of tropical rainforests
* Describe an adaptation that would help plants survive in a temperate deciduous forest
* Describe an adaptation that would help an animal survive in the taiga
* Name two threats to the world’s forest biomes
* Give two reasons YOU should care if tropical rainforests are destroyed.
* What are three main differences between tropical and temperate rainforests?
* What ecosystem services are provided by tropical rainforests?
 | Ecosystem servicesTropical rain forestTemperate rain forestTemperate deciduous forestTaigaCanopy |
| Grassland, Dessert, Tundra | 6.3 | * Describe the difference between tropical and temperate grasslands
* Describe two dessert animals and the adaptations that help them survive
* Describe a threat to the tundra biome
* What biome do WE live in?
 | SavannaTemperate grasslandChaparralDesertTundraPermafrost |
| Freshwater Ecosystems | 7.1 | * What factors determine where an organism lives in an aquatic ecosystem?
* Describe what type of organisms live in the littoral and benthic zones of a lake
* How does the runoff of fertilizers affect the nutrients in a lake? Is this good or bad – why?
* How can wetlands reduce the damage caused by flooding?
* What effect can runoff have on the health of organisms that live in and around a river?
 | WetlandPlanktonEutrophicationBenthic zoneLittoral zoneBenthosNektonRunoff |
| Marine Ecosystems | 7.2 | * Why is an estuary a very productive ecosystem?
* Compare salt marshes and mangrove swamps
* Describe two threats to coral reefs
* Describe two threats to ocean organisms
* Predict how the use of lawn fertilizers might affect ocean or bay ecosystems.
* What ecosystem services are provided by wetlands and estuaries?
 | EstuarySalt marshMangrove swampBarrier islandCoral reef |