**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? | Biome  Climate  Latitude  Altitude  Precipitation |
| 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 services  Tropical rain forest  Temperate rain forest  Temperate deciduous forest  Taiga  Canopy |
| 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? | Savanna  Temperate grassland  Chaparral  Desert  Tundra  Permafrost |
| 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? | Wetland  Plankton  Eutrophication  Benthic zone  Littoral zone  Benthos  Nekton  Runoff |
| 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? | Estuary  Salt marsh  Mangrove swamp  Barrier island  Coral reef |