



## Science 7 Laboratory Activity

# You Have No Life

**EQ:** *How is McKinney different from a rainforest?*

**Purpose:** To understand the importance of abiotic factors.  
To research abiotic factors in the biomes of the world.

**Expert information:** **Abiotic factors** are those non-living physical and chemical factors which affect the ability of organisms to survive and reproduce. Abiotic factors vary in the environment and limit the types and numbers of organisms that exist in that environment; thus they are called **limiting factors**. **Biotic factors**, or the living part of an environment, can in turn alter abiotic factors. For example humans polluting the ocean or cutting down trees in the rainforest will drastically alter abiotic factors. If the environmental disturbance is large enough, it can alter the abiotic factors so much that an entire species of animals could become extinct.

Abiotic factors vary from biome to biome. The two most important abiotic factors affecting life in a biome are temperature and precipitation.

**Procedure Part A:** Complete the following chart. You will become an expert on each biome and fill in the graphic organizer below.

Biome	Temperature (°C)	Average Precipitation (cm)	Description of Soil	2 Plants And 2 Animals
Tropical Rainforest				

<b>Biome</b>	<b>Temperature (°C)</b>	<b>Average Precipitation (cm)</b>	<b>Description of Soil</b>	<b>2 Plants And 2 Animals</b>
<b>Desert</b>				
<b>Grassland</b>				
<b>Temperate Rainforest</b>				

Biome	Temperature (°C)	Average Precipitation (cm)	Description of Soil	2 Plants And 2 Animals
Temperate Deciduous Forest				
Taiga (Coniferous Forest)				
Tundra				

