**­­Biome Book Project**

**Your job:** Put together a book (Word Document or PDF) that describes a particular biome of the earth (i.e., the Mojave Desert or the Amazon Rain Forest). Your book will be shared with your teacher and your classmates.

**Required Information:**

* A description of the major abiotic elements within the biome, including geographical location, land and water features, altitude, etc.
* A detailed description of the most important biotic elements within the biome.
* A detailed description of how the plants and animals in the biome interact with each other.
* A food web of the biome that includes all the abiotic and biotic elements that you described.
* An energy pyramid of the biome that includes all of the biotic and biotic elements that you described.
* A discussion of the effects (negative and positive) that humans have had on the biome.

**Grading:**

* You will mainly be graded for content, but organization and creativity are also part of the assessment.
* The project is worth 50 points

**See the rubric below for details.**

**Due Date: Thursday, March 26, 2020**

**Biome Project Scoring Guide:**

**Abiotic elements (2 points each):**

\_\_ The climate of the biome is discussed in detail

\_\_ Major land features and their effects are described (Including pictures)

\_\_ The geographical location of the biome is described, including a map

**Food Web (2 points each):**

\_\_ All major abiotic elements are included

\_\_ All major biotic elements are included (and they are the same ones described in the energy pyramid)

\_\_ The connections between the elements are clearly, completely and neatly diagrammed

**Energy Pyramid (2 points each):**

\_\_ All abiotic elements are included

\_\_ At least 2 decomposers are included

\_\_ At least 5 species of producers are included

\_\_ At least 5 species of primary and secondary consumers are included

\_\_ It is clear how energy moves through the pyramid

**Biotic Elements (2 points each):**

\_\_ A least 5 species of producers are described in some detail (appearance, where in the biome it lives) (Include pictures)

\_\_ At least 5 species of primary and secondary consumers are described (appearance, what it eats, where in the biome it lives) (Include pictures)

\_\_ At least 2 species of decomposers are described (scavengers OK) (Include pictures if possible)

\_\_ The species described are important to the whole biome

**Interconnections (14 points):**

\_\_The role (niche) of each species is described (example: the niche of a vulture in the East African Savannah is to help decompose dead animals).

**Both People:**

**Effects of Humans (2 points each):**

\_\_Human activities within the biome are described (Include pictures)

\_\_ The positive and negative impacts of humans on the biome are described (include pictures)

\_\_ Possible solutions to human-caused problems are identified and described

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total Score: \_\_\_\_\_\_\_\_/100