

## **Biome Project Template (Example)**

*I want you to record your research like I did below for each biome. You are welcome to use my information for the tundra. You are welcome to type your research or you can hand write your information. Make sure you write neatly if you do this by hand.*

(Number 3, 4, and 5 on biome project):

### **Tundra Biome**

#### Climate:

Tundra's are among earth's coldest, harshest biomes. Climate is cold and windy with scant rainfall.

Annual amount of rainfall = Rainfall may vary in different regions of the arctic. Yearly precipitation, including melting snow, is 15 to **25 cm (6 to 10 inches)**.

Temperature ranges = The average winter temperature is -34° C (-30° F), but the average summer temperature is 3-12° C (37-54° F) which enables this biome to sustain life.

Soil Description: The **soil** of the arctic **tundra** is poor in nutrients, which accounts for the low amount of vegetation. There is an under-layer of **soil** called permafrost which remains completely frozen at all times, allowing little room for deep rooting plants and trees

#### Two animals:

1. Polar Bear –
  - a. has white fur to blend in with the white snow for protection; white fur also reflects sunlight to keep the polar bear cool in the summer
  - b. has thick fur and a large layer of blubber (fat) to help insulate the bear so it does not freeze or get too cold
2. Arctic Fox-
  - a. White fur to blend in with the snow; protection from predators
  - b. Incredible sense of hearing; can hear prey under the snow; jumps up high into the air and plunges into the snow to catch its prey. Able to catch prey deep in snow without seeing it due to its keen sense of hearing.

#### Two Plants:

1. Caribou Moss
  - a. Adapted to lack of water and sunlight by becoming dormant. If there is not enough water or light, they don't die, they just become dormant, waiting for better conditions. They start growing again when conditions improve (adequate water and light).
  - b. Low growing to avoid being ripped out of the ground by the whipping wind
2. Bearberry
  - a. Bearberry is a low growing plant that uses that adaptation to stay out of the way of ripping Tundra wind.
  - b. It also favors to grow in hidden places like behind rocks to protect itself from the wind.
  - c. It has leathery leaves to keep heat and moisture inside the plant.

