

**Desert Ecology 5**

**Location:**

**Description:**

* Large \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ from**\_\_\_\_\_\_\_\_\_** to \_\_\_\_\_\_\_\_\_\_\_\_\_\_: 38º C to -4º C (100º F – 25º F)
* \_\_\_\_\_\_\_\_\_\_ \_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_: 25 cm (10 in) precipitation



* \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_: precipitation falls as rain; Mojave, Sahara
* \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_: precipitation falls as snow; Antarctica

**Characteristics:**

* \_\_\_\_\_\_\_\_\_\_\_\_biome
* Deserts cover about \_\_\_\_\_\_\_ of the earth’s surface
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**plants and animals

**Survival: Plant Adaptations**

* \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**:** in stems or roots
* \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_prevents dehydration
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** \_\_\_\_\_\_\_\_\_\_: expand to store water
* \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_: plants stop growing during dry spells
* \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_:these roots gather water deep in the soil or quickly after a rain
* \_\_\_\_\_\_\_\_\_ \_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_:this prevents dehydration; stems are **green for photosynthesis**
* \_\_\_\_\_\_\_\_\_\_\_\_ \_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_reflect light and prevent animals from eating

**Survival: Animals Adaptations**

* \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_: little shelter from sun
* Many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Many\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ animals
* Many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ animals



**Rainforest**

**Location:**

**Description:**

* \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_: 20º C to 34º C (68º F – º 93F)
* \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_: 200-1000 cm (80 to more than 100 in) rain; rains year round
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**:** close to equator: remains frost free
* \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**:** cooler, near coasts(Hoh rainforest in Washington state)

**Characteristics:**

* Most \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ biome
* Cover about \_\_\_\_\_\_\_ of earth’s surface
* \_\_ of all \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ come from rainforest plants
* \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**:**
1. **\_\_\_\_\_\_\_\_\_\_\_\_**  ­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:very tall, widely spaced trees with umbrella-shaped canopies: lost of intense light
2. \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_: tall trees that allow little light to penetrate; vines; most animals live here
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ OR \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: smaller trees, ferns , vines, and palms; littler light, little air movement & high humidity
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_:few plants because of deep shade; poor soil (nutrients quickly decomposed and absorbed by tree roots)

**Survival: Plant Adaptations**

* \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_**:**thesehelp shed water from leaves to prevent rotting
* \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_: this also helps shed water
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_: these leaves protect from dehydration in the intense sun
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ IN \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_:these leaves help understory plants absorb light in the shade
* \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ that \_\_\_\_\_\_\_\_\_ to follow the sun: maximize light in the understory
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(plants that grow on other plants) grow in upper canopy; orchids and bromeliads
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_: anchor in shallow, wet soil
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Survival: Animal Adaptations:**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_:a tail used to help climb
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_:** blend in with brightly colored flowers
* Many **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** live in the rainforest
* Many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ animals

**Ecology 6**

**Biome Challenge:**

**Directions:** Place a DE by the plants and animals from the **Desert** and a RF by plants and animals from **Rainforest**.

1. Sidewinder \_\_\_\_

10. Saguaro \_\_\_\_

11. Epiphyte \_\_\_\_

12. Prickly Pear \_\_\_\_

13. Roadrunner \_\_\_\_

14. Vine Snake \_\_\_\_

15. Thorny Devil \_\_\_\_

16. Capybara \_\_\_\_

17. Three-toed sloth \_\_\_\_

2. Macaw \_\_\_\_

3. Kangaroo Rat \_\_\_\_

4. Jaguar \_\_\_\_

5. Scorpion \_\_\_\_

6. Fennec Fox \_\_\_\_

7. Howler Monkey \_\_\_\_

8. Poison Arrow Frog \_\_\_\_

9. Gila monster \_\_\_\_

**Homework: For the Desert: Trace your hand**

1. On one finger, write two facts about the climate of the **Desert**
2. On one finger, write two facts about the characteristics of the **Desert**
3. On one finger, write two facts about the plants of the **Desert**
4. On one finger, write two facts about the animals of the **Desert**
5. On your thumb, write something your found interesting or surprising
6. On the palm of your hand, write three things you would pack to take to the **Desert** (NOT Cell phone, IPAD, etc.—three things **specific** for the **Desert**)

**Homework: For the Rainforest: Trace your hand**

1. On one finger, write two facts about the climate of the **Rainforest**
2. On one finger, write two facts about the characteristics of the **Rainforest**
3. On one finger, write two facts about the plants of the **Rainforest**
4. On one finger, write two facts about the animals of the **Rainforest**
5. On your thumb, write something your found interesting or surprising
6. On the palm of your hand, write three things you would pack to take to the **Rainforest** (NOT Cell phone, IPAD, etc.—three things **specific** for the **Rainforest**)