

E2. Natural Influences

Natural Influences on Habitats: Changes in the Circle of Life

Habitats, the natural homes of plants and animals, are constantly influenced by the forces of nature. Natural influences, such as seasonal changes, have a significant impact on habitats and the living organisms within them. In this passage, we will explore how plants and animals respond to these natural influences and how they adapt to the ever-changing conditions of their habitats.

SUMMER

Natural Influences on Habitats

Habitats experience natural changes over time, including seasonal variations in temperature, rainfall, and the length of daylight. These influences can affect the availability of resources, the behavior of organisms, and the overall balance within habitats.

Seasons: A Cycle of Change

Seasons occur as a result of the Earth's tilt and orbit around the sun. They bring about distinct changes in weather, temperature, and the growth of plants. Spring, summer, fall, and winter each have unique characteristics that impact habitats.

Spring: A Time for New Beginnings

In spring, habitats come alive with new

growth. Plants sprout from the ground, animals awaken from hibernation, and birds return from their migration to build nests and raise their young. It is a season of renewal and rebirth.

Summer: Warmth and Abundance

Summer is a season of warmth and long days. It provides abundant sunlight and rainfall, allowing plants to grow and flourish. Animals take advantage of the plentiful food sources and engage in activities like mating and raising their offspring.

Fall: Nature's Colorful Display

As fall arrives, habitats undergo remarkable transformations. The leaves of trees change color and fall to the ground, and animals prepare for the approaching winter. It is a time of harvest and migration for many species.

Winter: A Time of Rest and Survival



Winter brings cold temperatures, shorter days, and sometimes snow or ice. Many plants enter a period of dormancy, conserving energy until spring returns. Animals adapt by hibernating, migrating, or developing thicker coats to endure the cold.

Animal Adaptations to Seasonal Changes

Animals have remarkable adaptations to cope with the changing seasons. Some grow thicker fur or feathers to stay warm in winter, while others migrate to areas with more favorable conditions. These adaptations ensure their survival throughout the year.

Plant Responses to Seasonal Changes

Plants also respond to seasonal changes. In spring and summer, they produce vibrant leaves, colorful flowers, and tasty fruits. In fall, some plants shed their leaves or develop protective coverings, like cones or spiky seed pods. These strategies help plants survive the colder months.

The Circle of Life in Habitats

Seasonal changes influence the circle of life in habitats. They affect the availability of food, the breeding patterns of animals, and the reproduction of plants. These interconnected processes contribute to the diversity and stability of ecosystems.

The Importance of Natural Influences on Habitats

Natural influences are essential for the health and balance of habitats. They allow organisms to adapt and thrive, contribute to biodiversity, and ensure the continuity of life. Understanding and respecting these natural influences is crucial for the conservation of habitats.

Now, let's test your understanding of natural influences on habitats!

- 1. What are natural influences on habitats?
 - A) Changes in temperature and rainfall
 - B) Human activities and pollution
 - C) Buildings and roads
 - D) Seasonal variations in daylight
- 2. How many seasons are there?
 - A) Two
 - B) Three
 - C) Four
 - D) Five
- 3. Which season is associated with new growth and rebirth?
 - A) Spring
 - B) Summer
 - C) Fall
 - D) Winter



- 4. What happens to habitats in summer?
 - A) Plants grow and animals mate and raise their young
 - B) Animals hibernate and plants shed their leaves
 - C) Leaves change color and fall from trees
 - D) Plants enter a period of dormancy
- 5. How do animals adapt to winter?
 - A) By developing thicker coats and hibernating
 - B) By shedding their feathers or fur
 - C) By migrating to warmer areas
 - D) By growing taller and reaching for sunlight
- 6. How do plants respond to fall?
 - A) By producing colorful flowers and tasty fruits
 - B) By shedding their leaves or developing protective coverings
 - C) By growing thicker stems and roots
 - D) By going dormant and conserving energy
- 7. What are some adaptations of animals to seasonal changes?
 - A) Growing taller and reaching for sunlight
 - B) Shedding their leaves or developing protective coverings
 - C) Developing thicker coats or migrating
 - D) Producing colorful flowers and tasty fruits
- 8. How do seasonal changes influence the circle of life in habitats?
 - A) They affect the availability of food and the reproduction of plants
 - B) They impact the growth of buildings and roads
 - C) They cause pollution and harm habitats
 - D) They have no effect on habitats
- 9. Why are natural influences important for habitats?
 - A) They allow organisms to adapt and thrive
 - B) They contribute to biodiversity and ensure the continuity of life
 - C) They maintain the balance and health of ecosystems
 - D) All of the above
- 10. What is one way to respect and understand natural influences on habitats?
 - A) By practicing conservation and reducing pollution
 - B) By building more structures in habitats
 - C) By interfering with the natural cycles of seasons
 - D) By neglecting the needs of plants and animals



Answers:

- 1. A) Changes in temperature and rainfall
 - Natural influences on habitats include changes in temperature and rainfall, which occur due to seasonal variations.

2. C) Four

• There are four seasons: spring, summer, fall, and winter, each with its own characteristics.

3. A) Spring

- Spring is associated with new growth and rebirth in habitats, as plants sprout, animals awaken, and birds return.
- 4. A) Plants grow and animals mate and raise their young
 - In summer, habitats experience abundant growth, and animals take advantage of the favorable conditions for mating and raising their offspring.
- 5. A) By developing thicker coats and hibernating
 - Animals adapt to winter by growing thicker coats or fur and hibernating to conserve energy during the colder months.
- 6. B) By shedding their leaves or developing protective coverings
 - In fall, some plants shed their leaves or develop protective coverings, such as cones or spiky seed pods, as a response to the changing conditions.
- 7. C) Developing thicker coats or migrating
 - Animals adapt to seasonal changes by developing thicker coats or fur to stay warm or by migrating to areas with more favorable conditions.
- 8. A) They affect the availability of food and the reproduction of plants
 - Seasonal changes influence the availability of food for animals and impact the reproduction of plants, influencing the circle of life in habitats.
- 9. D) All of the above
 - Natural influences on habitats are important because they allow organisms to adapt and thrive, contribute to biodiversity, and maintain the balance and health of ecosystems.
- 10. A) By practicing conservation and reducing pollution
 - Respecting and understanding natural influences on habitats involves practicing conservation, reducing pollution, and taking steps to preserve and protect the environment.