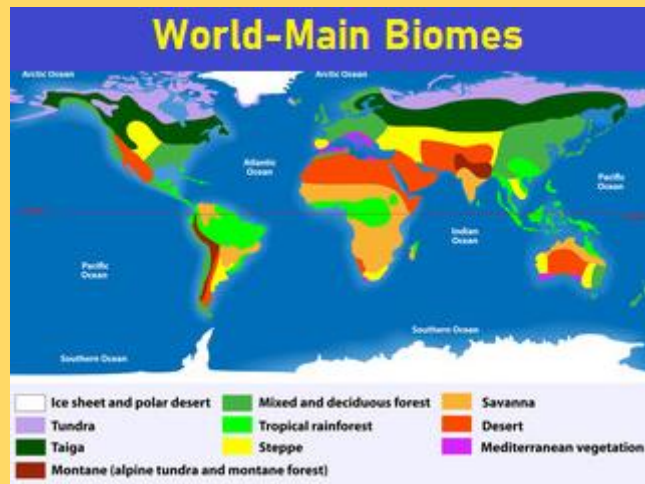


Lesson Plan: Distribution and Characteristics of Biomes

Subject: Geography

Year Level: Year 9

Duration: 1 hour



Curriculum Links:

- **Geographical Knowledge and Understanding:**

- ACHGK060: The distribution and characteristics of biomes as regions with distinctive climates, soils, vegetation, and productivity.

Lesson Objectives: By the end of the lesson, students will be able to:

1. Define what biomes are and identify major biomes around the world.

2. Describe the key characteristics (climate, soils, vegetation, productivity) of selected biomes.
3. Understand the factors influencing the distribution of biomes globally.

Resources Needed:

- Slideshow presentation on biomes
- World map or globe
- Printed or digital resources describing various biomes
- Worksheets for biome characteristics

Lesson Outline:

1. Introduction to Biomes (15 minutes)

- **Activity:** Start with a brief discussion on ecosystems and introduce the concept of biomes as large regions characterized by distinct climates, soils, vegetation, and productivity.
- **Definition:** Define what a biome is and explain its significance in geography.

- **Example:** Show images or videos of different biomes (e.g., tropical rainforest, desert, tundra) to illustrate their diversity.

2. Major Biomes of the World (20 minutes)

- **Presentation:** Use a slideshow to present major biomes (at least 4-5 examples) and their locations on a world map or globe.
- **Characteristics:** For each biome, discuss:
 - Climate: Temperature range, precipitation patterns.
 - Soils: Types and fertility.
 - Vegetation: Dominant plant species and adaptations.
 - Productivity: Primary productivity and ecological roles.
- **Activity:** Students take notes or complete a worksheet detailing the characteristics of each biome discussed.

3. Factors Influencing Biome Distribution (15 minutes)

- **Discussion:** Lead a discussion on the factors influencing the distribution of biomes:
 - Latitude and temperature gradients.

- Precipitation patterns.
- Altitude and topography.
- Human impacts (e.g., deforestation, climate change).
- **Examples:** Use case studies or real-life examples to illustrate how these factors affect biome distribution globally.

4. Conclusion and Activity (10 minutes)

- **Review:** Summarize the key points about biomes and their characteristics.
- **Activity:** Assign a homework task where students research and write a short paragraph on a biome of their choice, focusing on its specific characteristics and adaptations of plants and animals.

Assessment:

- Formative assessment during class discussions and activities.
- Review of completed worksheets detailing biome characteristics.
- Homework assignment on biome research and analysis.

Differentiation:

- Provide additional resources or readings for students who want to explore specific biomes in more depth.
- Offer support to students who may need assistance with note-taking or understanding complex concepts like climate zones.

Extension:

- Encourage students to create presentations or posters showcasing adaptations of flora and fauna in different biomes.
- Explore virtual tours or 360-degree videos of different biomes for a more immersive learning experience.

Reflection:

- Conclude the lesson with a short reflection where students share one thing, they found interesting or surprising about biomes and their characteristics.

This lesson plan is designed to engage students actively in exploring the diversity and distribution of biomes, aligning with the Australian Curriculum requirements for Year 9 Geography (ACHGK060).

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