

Assignment 2: Biome Research Project

Objective

Research a specific biome and create a comprehensive report.

Biome Options

Choose one: - Tropical Rainforest - Temperate Forest - Grassland - Desert - Tundra - Taiga - Freshwater - Marine

Report Requirements

1. Location and Climate (20 points)

- Geographic distribution
- Climate characteristics
- Seasonal variations
- Unique environmental features

2. Abiotic Factors (20 points)

- Temperature ranges
- Precipitation patterns
- Soil characteristics
- Light availability
- Other important factors

3. Biotic Components (25 points)

- Characteristic plant species
- Characteristic animal species
- Adaptations to environment
- Biodiversity levels

- Keystone species

4. Ecological Relationships (20 points)

- Food webs
- Symbiotic relationships
- Competition
- Predator-prey dynamics
- Nutrient cycling

5. Threats and Conservation (15 points)

- Human impacts
- Climate change effects
- Conservation efforts
- Future outlook

Visual Component

Create a visual presentation (poster, slides, or infographic) showing: - Biome location map - Climate graphs - Food web - Key species - Conservation status

Research Requirements

- Minimum 5 credible sources
- Include recent research
- Proper citations
- 6-8 pages for written report

Submission

Submit written report and visual component via Canvas.