

Section 1.1

Biomes

Study Notes



By the end of section 1.1 you should be able to understand the following:

- A biome is the largest division of the biosphere.
- Large regions within biomes have similar biotic and abiotic components. The interaction of these components determine the characteristics of the biome.
- Temperature and precipitation are the most influential abiotic factors on biomes.
- Organisms have adaptations for survival in the specific environmental conditions of their biome.

NOTES

Describe the two components that make up every environment.

1.

2.

The biosphere is every part of the world that supports life. What are the divisions of the biosphere, from largest to smallest?

1.

2.

3.

What is a biome?

1.

NOTES

What are the 8 terrestrial biomes? Place a small * beside each biome that can be found in Canada.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

What are the two most important abiotic factors that influence a biome?

- 1.
- 2.

Which biome would you most likely find an average annual temperature of 10°C with an average annual precipitation amount of 215 mm?

- 1.

What is latitude? Which latitudinal zone receives the most direct sunlight? Which latitudinal zone receives the most annual rainfall?

- 1.
- 2.
- 3.

Why and how does elevation influence temperature and precipitation?

- 1.
- 2.
- 3.
- 4.

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NOTES

What is climate? What is a climatograph?

1.

2.

What are adaptations, in reference to the biosphere? What is the difference between a structural and a behavioural adaptation?

1.

2.

3.

List 4 unique qualities of the tundra biome.

1.

2.

3.

4.

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NOTES

List 4 unique qualities of the boreal forest biome.

1.

2.

3.

4.

List 4 unique qualities of the temperate deciduous forest biome.

1.

2.

3.

4.

List 4 unique qualities of the temperate rainforest biome.

1.

2.

3.

4.

List 4 unique qualities of the grassland (temperate and tropical) biome.

1.

2.

3.

4.

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NOTES

List 4 unique qualities of the tropical rainforest biome.

1.

2.

3.

4.

List 4 unique qualities of the desert (hot and cold) biome.

1.

2.

3.

4.

List 4 unique qualities of the permanent ice (polar ice) biome.

1.

2.

3.

4.

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