



World Biomes & Climate Zones

Gold

These Gold questions require explaining global climate and biome systems with genuine geographical reasoning.

Name: _____ Date: _____

Section A: Climate Reasoning

1. Explain why the equator receives more direct sunlight than the poles throughout the year.

2. Explain how the tilt of the Earth causes seasons to occur.

3. Compare the climate of a tropical rainforest biome with that of a tundra biome, explaining the key differences.

4. Explain how mountain ranges can create different climates on either side of them (a "rain shadow" effect).

5. Why might climate change be affecting biomes differently around the world?

Section B: Biomes & Global Impact

1. Explain why protecting rainforest biomes matters for the whole world, not just the countries they are in.

2. Evaluate the impact of human activity on at least two different biomes.

3. Explain how a change in one biome (e.g. melting Arctic ice) could affect ecosystems elsewhere.

4. Why might scientists study biomes to understand and predict the effects of climate change?

5. Explain the relationship between climate zones, biomes, and the plants and animals that live there.

