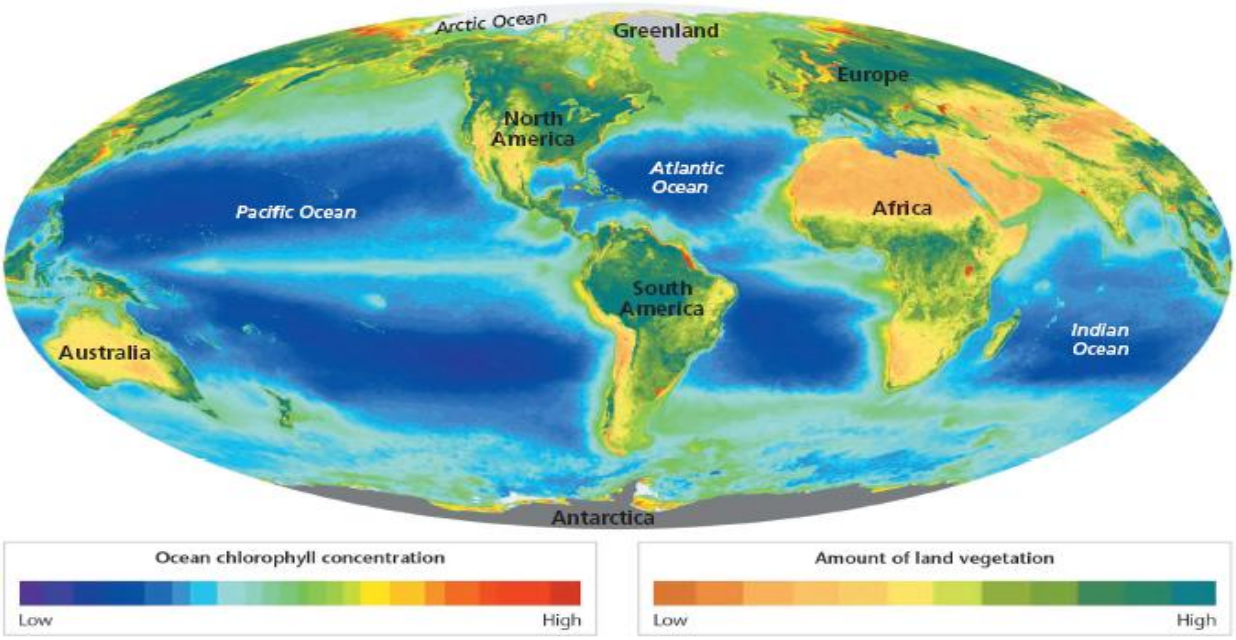
Concentration of Plant Life on Earth 10



Name _____ Date_____

Concentration of Plant Life on Earth

This map shows the concentration of plant life on land and in the oceans. Each color in the key represents a concentration of plant life as indicated by the concentration of chlorophyll. The higher the concentration of chlorophyll is, the higher the concentration of plant life is. Use the map to answer the questions below.

1. Using a Key How can you distinguish between high chlorophyll concentration in the ocean and high chlorophyll concentration on land?

2. Comparing Areas List three areas that have very low chlorophyll concentration on land. What characteristics of these areas cause such low chlorophyll concentrations?

3. Comparing Areas Why do you think Antarctica, Greenland, and the Arctic Ocean lack chlorophyll?

4. Identifying Trends Where are the highest chlorophyll concentrations in the ocean located? Why do you think these areas have high chlorophyll concentrations?

5. Identifying Trends Plants use sunlight and chlorophyll to produce energy. What can you infer about the amount of sunlight around the equator that could help explain why areas along the equator tend to have higher concentrations of chlorophyll than surrounding areas do?