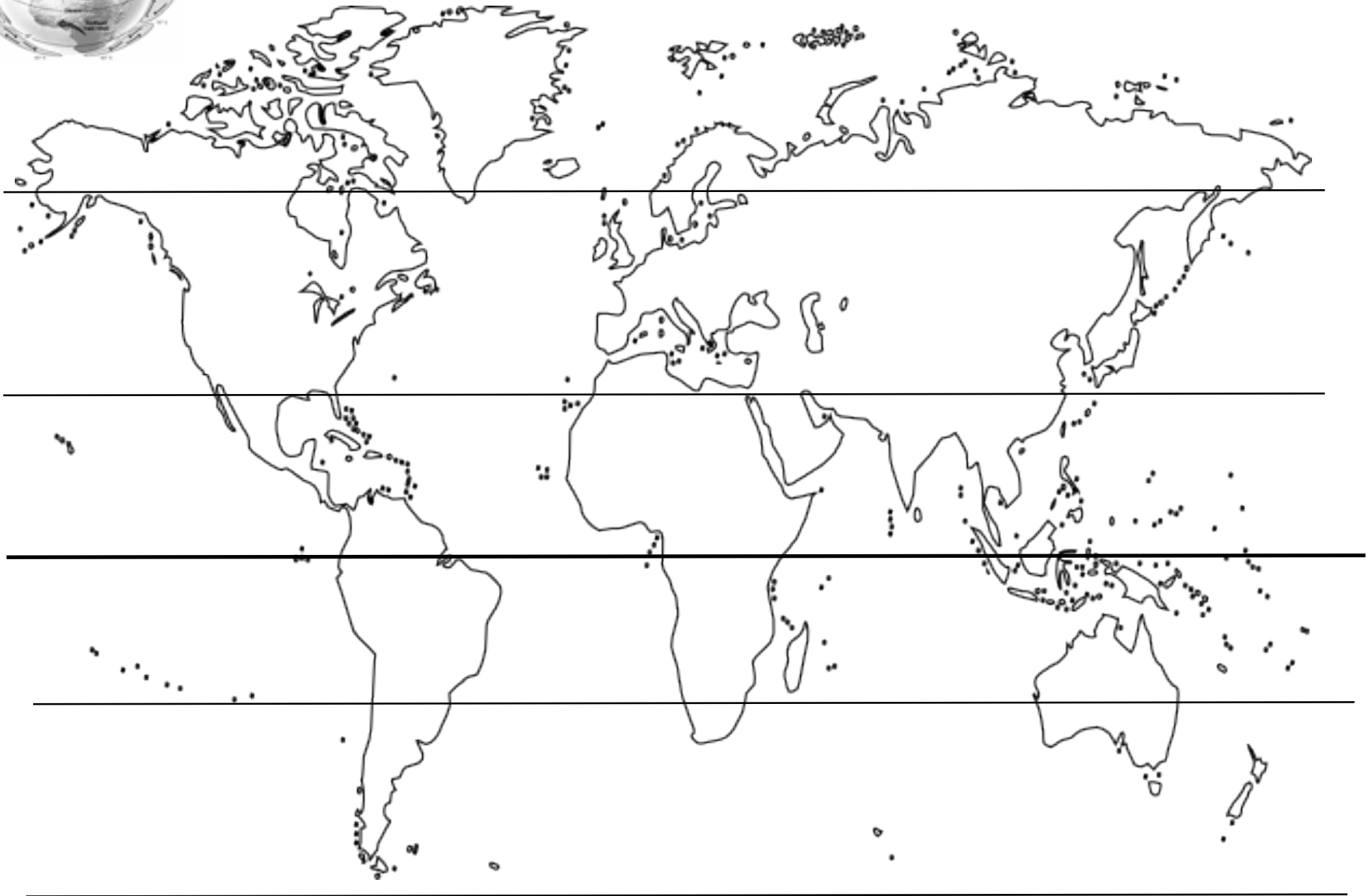
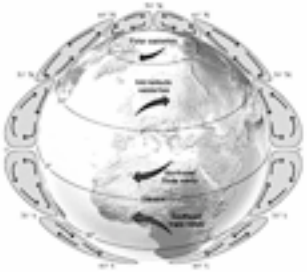


The Producers



Name: _____ Period: _____ Date: _____

1. There are four abiotic (non-living) factors that influence an ecosystem - list them in the space below.
2. Many producers make their own food through a process called what?
3. Label the Equator on your map.
4. Using Google Earth color/shade the land areas on your map - the darker green the area on Google Earth, the darker you should shade the area of land on your map. It should take you around five minutes to do all the continents - so don't go too crazy on detail.
5. What abiotic factors do you think contribute to the darker areas of your map? Why?
6. What abiotic factors do you think are responsible for the light colored areas of your map? (excluding the ocean)
7. Producers (autotrophs) are the starting point for food chains, on which all life on Earth depends. Looking at your map, **what areas do you think support the most organisms?** Circle them and label the #7.

Advanced Questions

8. What relationship do the lines have that seem to pass through these light-colored areas? (the globe at the top right is a hint)
9. Average ocean productivity is 50 grams of carbon m^2 /year, while average land productivity is 160 grams of carbon m^2 /year. Which has the highest yearly productivity on Earth - the oceans or land? Why?