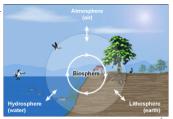
The Earth's Structure

Tuesday 11/4



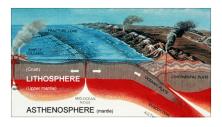
Earth's Structure

- The Earth has three major parts
 - Lithosphere (solid)
 - Hydrosphere (liquid water)
 - Atmosphere (gas)



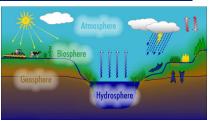
The Lithosphere

 The dense, solid shell of the earth composed of rock and soil that surrounds the more fluid inner layers



The Hydrosphere

- The waters of the Earth including the oceans, lakes, rivers, and water in the ground
- Water covers 70% of the Earth's surface



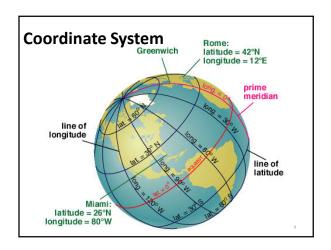
The Atmosphere

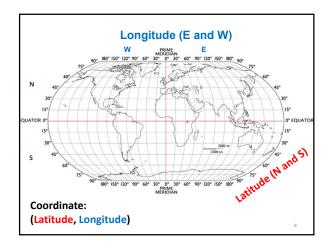
- The shell of gasses that surround the earth and is layered into zones
 - Troposphere contains the gasses necessary for life
 - <u>78% nitrogen, 21% oxygen,</u> <u>1% other gasses</u>
 - Strong winds and storms along with most of the water vapor and clouds
 - Stratosphere
 - Mesosphere
 - Thermosphere



Locating Positions on Earth

- Coordinate System
 - Scientists have established a surface grid (lines) that you can use to locate any position on Earth.
 - Each pair of coordinates (2 numbers) are called the latitude and longitude
 - Latitude are distances in degrees north or south of the equator
 - The Equator is an imaginary line that circles the Earth halfway between the North Pole and the South Pole.
 - <u>Longitude</u> are distances in degrees east or west of the <u>prime meridian</u>
 - The Prime Meridian is an imaginary line that runs through Greenwich, England, from the North Pole to the South Pole





Practice!

- Complete the "World Latitude and Longitude Activity"
- Turn in the activity into the clear tray by the end of the period for a class participation grade or finish tonight as additional homework.
- Raise your hand if you have any questions!



Helpful Textbook Pages: <u>33 - 35, Glossary</u>

Today's Main Idea

 $\frac{\text{The Coordinate System (Latitude N \& S, Longitude E \& W)}}{\text{is used to locate positions on the Earth.}}$

Explore Question

2. Explore today's main idea with this question:
You are at 70° north latitude flying directly south, how
many more degrees of latitude would be left to pass over
to reach the south pole?

Vocabulary

- Contour Line
- Contour Interval
- Map Legend