Aim: Earth’s Shape

Proof that the Earth is Round

1. Pictures from space
   2. Lunar Eclipse, Earth casts a curved shadow on the moon.
   3. Ship’s sailing away appear to disappear slowly
   4. Altitude of Polaris equals your North latitude

The Earth is not a perfect circle.
It is an OBLATE SPHEROID

Because of Earth’s Rotation it BULGES at the equator & it is flattened at the poles.
(video: The earth’s equatorial bulge)

Equatorial Diameter: 12,756

Polar Diameter: 12,714 km

Weigh more at the Poles

Earth’s Structure
1. Lithosphere (land) - solid, outer shell, composed of rock & soil
2. Hydrosphere (water)
3. Atmosphere (air)

Handout: Measuring Earth

Bored
9/20/12
HW Density Lab
Text p.27-31 #1, 4
Aim: Earth's Structure

1. Lithosphere - Solid outer shell composed of rock + soil (crust)
   Composed of mostly Oxygen + Silicon
   Density = 2-3 g/cm³
   etc. p.1 (crust)

2. Hydrosphere - Water sphere H₂O (liquid)
   ~75% of earth is covered by water
   66% Hydrogen
   33% Oxygen
   Density = 1.0 g/ml
   etc. p.1

3. Atmosphere - Air/gas sphere [Troposphere]
   Composed of Nitrogen 78% + Oxygen 21%
   Very Low Density

   etc. p.1 and 14