Mapping Unit Quiz Study Guide

Be able to determine the bearing from one point to another (using a map or by pointing the compass across the classroom at a "target")

Use a map to determine the elevation above sea level of a given point.

Be able to differentiate between latitude and longitude. (describe them)

Use a map scale, a map, and a ruler to determine the distance between 2 points on a map (for example, from LAHS to New Berlin)

Be able to calculate distance using degrees (for example, if Lewisburg is at 41 degrees north, how far is that from...north pole? South pole? Equator?)

Be familiar with what topographic lines mean. (what does it mean when the lines are close together? What about when they're far apart?)

Find the circumference of a sphere as done by Eratosthenes, (I'll provide you with the angle of the shadow, and the distance between to points on the surface of the sphere. Cross multiply). For example; An imaginary planet which is spherical in shape has two cities that are 1400 meters apart. At noon on a certain day the sun is directly overhead at one of the cities but at the other city it creates a shadow at an angle of 10 degrees.

Be able to calculate percent error. For example you estimate the distance from Lewisburg to Mifflinburg to be 5 miles. The actual distance is 8 miles. What is your percent error?

What are the 5 steps in the Scientific method that we discussed in class?