Name: _____

Date: _____ Period: _____

Review: Measuring the Earth

Directions: Carefully read over the checklist of items that you need to know for the "Measuring the Earth" test. Be sure to attend extra help if you have any questions.

SPHERES OF THE EARTH:

- ☐ Terms to Know: lithosphere, atmosphere, hydrosphere
- ☐ ESRT Chart: Average Chemical Composition of Earth's Crust, Hydrosphere, and Troposphere
- ☐ ESRT Chart: Selected Properties of Earth's Atmosphere
- ☐ ESRT Chart: Inferred Properties of Earth's Interior
- ☐ Ozone - molecules that absorb harmful ultraviolet [UV] light that are found in the stratosphere
- ☐ Outer Core is liquid

LATITUDE AND LONGITUDE

- ☐ Terms to Know: latitude, equator, longitude, prime median, international date line,
- ☐ Latitude: max Latitude = 90º
- ☐ Altitude of Polaris = Latitude [northern hemisphere]
- ☐ As latitude increase… altitude of Polaris increases
- ☐ Max Longitude = 180º
- ☐ ESRT Chart: Generalized Bedrock Geology of New York State
- ☐ Earth's rotation is the basis for local time
- ☐ Earth rotates 360º in 24 hours = 15º/hour
- ☐ Each time zone covers 15º of longitude

FIELD MAPS AND ISOLINES

- ☐ Terms to Know: field, isoline, isotherm, isohyet, isobar, contour line
- ☐ Isoline Rules:
    1. Connect equal points of data
    2. Close around hills and depressions
    3. Extend to the edge of the map border
    4. Isolines never cross one another

TOPOGRAPHIC MAPS AND PROFILES

- ☐ Terms to Know: elevation, topographic map, topographic profile
- ☐ More Terms to Know: contour line, contour interval, contour index, depression contour lines
- ☐ Steep slope = contour lines close together
- ☐ Gentle slope = contour lines far apart
- ☐ Contour lines bend the opposite direction when they cross a stream or river
- ☐ Know how to interpret/read a topographic map
- ☐ Know how to calculate the possible max or minimum elevation
- ☐ Know how to create a profile