

Measuring Earth Objectives

Correctly define: isolines, gradient, topographic map, contour interval, hachured lines, profile, latitude, longitude, hydrosphere, lithosphere, atmosphere, elevation, model

EARTH'S SPHERES

Identify the three spheres of the Earth.

TOPOGRAPHIC MAPS

Calculate the contour interval on an unmarked map.

Determine the elevation of every point on a topographic map.

Determine the direction of flow of a river or stream on a topographic map.

Accurately calculate the distance between two locations in miles or kilometers.

Draw a profile between two points on a topographic map.

GRADIENT

Determine the gradient between two points on a topographic map.

Calculate the temperature gradient between two points on an isotherm map.

LATITUDE AND LONGITUDE

Identify the means by which latitude and longitude were created and the science upon which they are based.

Calculate the latitude and longitude of any point on the Earth's surface.

Determine the latitude and longitude of all major cities in NY State based on the map in the Earth Science Reference Tables.

Determine the latitude and longitude of all continents based on the map in the Earth Science Reference Tables.

Determine the altitude of Polaris for any location in the Northern Hemisphere.