

Objective

By the end of this lesson, the student will understand the concepts of longitude and latitude, how they are used to locate places on Earth, and will be able to identify key lines such as the Equator and the Prime Meridian on a map.

Materials and Prep

- Paper
- Pencil or pen
- Ruler (optional)
- Access to a globe or a world map (if available)
- Knowledge of basic geography (continents, oceans, etc.)

Activities

- **Map Drawing:**

The student will draw their own world map on paper. They should include the Equator and Prime Meridian, labeling the lines of latitude and longitude. This will help them visualize how these lines divide the globe.

- **Coordinate Treasure Hunt:**

Create a treasure map using latitude and longitude coordinates. The student will have to follow the coordinates to find "treasures" (which can be small items around the house). This activity makes learning interactive and fun!

- **Longitude and Latitude Game:**

Play a guessing game where you give the student a set of coordinates, and they must guess which location on Earth corresponds to those coordinates. This can be done verbally or by using a map if available.

Talking Points

- "Longitude lines run from the North Pole to the South Pole, while latitude lines run parallel to the Equator."
- "The Equator is at 0 degrees latitude and divides the Earth into the Northern and Southern Hemispheres."
- "The Prime Meridian is at 0 degrees longitude and divides the Earth into the Eastern and Western Hemispheres."
- "Coordinates are expressed in degrees, with latitude listed first and longitude second, like this: (latitude, longitude)."
- "Understanding longitude and latitude is crucial for navigation and helps us pinpoint exact locations on the globe."