

Globe Lesson 4 - The Compass - Grade 4-5

Skills used Latitude & Longitude
Using scale to measure distance
Using direction

Vocabulary compass, navigation

Materials Needed Globe in Horizon Ring Mounting

Lesson

In your study of history you will learn about improvements that the **compass** brought to **navigation** during the period of exploration. You will learn that the needle of the compass always aligns north and south. But, is this always true? You can use your globe to find out.

On your globe circle the small "+" symbol that you will find near 78°N/105°W. What does this symbol represent?

(1.) _____

The magnetic north pole is the location at which the head of the compass needle actually points. Approximately how far is the magnetic north pole from the geographic, or true, north pole?

(2.) _____

If you had a magnetic compass in an airplane at 85°N/105°W, in what direction would the head of the needle point? (3.) _____

If you were in Nome, Alaska at $65^{\circ}\text{N}/165^{\circ}\text{W}$, what direction would the head of your compass needle point? (4.) _____

In which of the following cities would a magnetic compass needle most accurately point to the geographic north pole?

- a. Atlanta, Georgia at $34^{\circ}\text{N}/84^{\circ}\text{W}$
- b. Los Angeles, California at $34^{\circ}\text{N}/118^{\circ}\text{W}$.