

Name: _____

Period: _____ Date: _____

Celestial Point Post-It Challenge

Astronomy

Directions: Using the Post-It notes provided and together with your group, label the classroom with the correct terms and directions needed to show our room as a celestial sphere. Use the compass on your phone to help direct you from a cardinal direction prospective and align those directions with the others listed below. Use a protractor to map exactly where the North Celestial Point and South Celestial Point would be. Be careful and good luck!

Vandergrift, PA Coordinates:

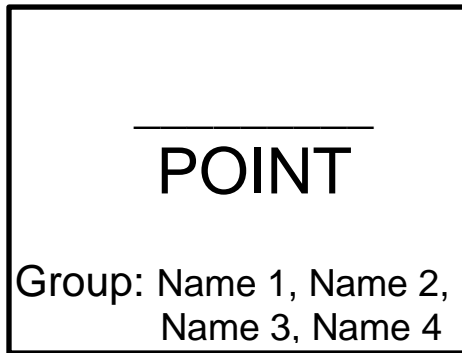
Latitude: 40.4004

Points Needed:

- Cardinal North
- Cardinal South
- Cardinal East
- Cardinal West
- Cardinal North East
- Cardinal North West
- Cardinal South East
- Cardinal South West
- Zenith (*I took care of this one...*)
- Nadir
- North Celestial Point
- South Celestial Point

Post-It Note Procedure:

1. Each Post-It needs to be set up just as the diagram shows below.



2. Be sure that each Post-it is legible and correctly placed EXACTLY where it needs to go.
3. Once all your Post-its are placed correctly, have them checked!

Questions: (*You know the format for these...*)

1. Why is it important to understand where all of the celestial sphere directions are prior to examining the sky?

2. Why is it important to know the latitude in order to determine the points of the celestial sphere? Explain.

3. Do the stars “move” across the sky the same way when looking at each of the cardinal directions? Explain.

Label Each of the Points from the Front on the Diagram Below:

Assume Bob is facing East here at the high school.

Shade in the part of the celestial sphere he can't see.

