SHS Aviation VOR Intercept Lab 2: Name: _____

Directions: Follow the directions very carefully as this will be vital to complete this lab.

PreLab Questions: You will be flying to a different airport than you did in the previous lab.

1. What airport are you departing from? _____
2. What airport are you heading to? _____
3. What VOR are you using? _____ its frequency? _____
4. What Bearing Radial will you intercept? _____ (TO/FROM) _____

Lab Procedure:

Equipment needed:

- Laminiated New York Sectional map
- Dry Erase marker
- Plotter
- Simulator with a co-pilot

Lab Purpose: To navigate from one airport to another via VOR navigation, not GPS.

1. Obtain the laminated New York Sectional map we have been using. Identify _____ airport you are departing and the closest VOR _____ to your destination airport _____.
2. Line up on the airport runway and dial in the radio frequency for _____ into NAV 1 on the instrument panel. Can hear the Morse Code Identifier. _____ (yes/no).
3. This is now something you should have done prior to getting into your airplane as part of a preflight planning session. Locate the TO and FROM Radial at VOR that would take you directly to your destination airport. Write this down below.

_____VOR _____ Hz Radial Bearing TO _____ Radial Bearing FROM _____

4. Go to the website: https://canvaslib.erau.edu/coa-flight/trainingaids/navigation/vor.html and practice this procedure on your Chromebooks prior to making this flight. Set up the airplane and VOR in a similar manner as you see on the Sectional and with your mouse, move the airplane as it if were taking off from Oxford and turn it towards the Bearing Radial you want to intercept.
5. Follow normal take off procedures and after reaching an MSL of 1200 feet begin to turn from the runway heading towards Danbury and intercept your bearing. Climb to 2500 feet MSL and continue to head towards Danbury Airport.
6. Fly this bearing on a TO indication, the Bearing Radial and Heading should be the same when there is no wind.

7. When you see the airport begin landing procedures and safely land to a full stop.

Post Lab Questions:

1. Name to Airspace you flew through from Oxford (OXC) to Danbury (DXR).

2. Name three land marks you crossed as you were flying to help identify where you are located. Pilots who do not use any instruments to fly use these landmarks to guide themselves cross country. This is known a Dead Reakoning Flying.

3. What are the ceiling heights of the airspace around departure and arrival airports, respectively?

4. When might your heading and your bearing be different when approaching your destination airport?