Complete the following tasks using the copy of the weather map provided to you.

1. Go to <http://www.opc.ncep.noaa.gov/> (select Continental US) and identify the following on your map:

a. all of the centers of LOW PRESSURE (also the values associated with each in mbar)

b. all of the centers of HIGH PRESSURE (also the values associated with each in mbar)

c. all of the fronts (with correct color and shapes)

2. Go to <http://www.weather.com/maps/currentusweather> or <http://www.weather.com/maps/usdopplerradar> and color any precipitation on the map that is occurring.

a. Predict what is causing the precipitation to occur in these locations here:

3. Go to <http://www.weather.com/maps/ustemperaturemap> and use a light, colored pencil to lightly sketch the air temperatures across the map. (Do not write each temperature that you see. Use the colors as an indicator of the approximate temperature and make a key to go with the map.)

a. Does the air temperature confirm your prediction in Question 2? Explain how the temperatures affect your answer to Question 2.

4. Go to <http://www.weather.com/maps/ussatellitemap> and

a. determine what information this map is sharing.

b. explain what the different colors of the map indicate.

c. how can the information on this map be used to make a prediction about the weather?

5. Go to [https://www.wunderground.com/maps/us/WindSpeed.html](https://www.wunderground.com/maps/us/WindSpeed.html%20%20)  and observe the direction that the winds are taking place.

a. Using the weather maps that you’ve been creating, determine the correlation between wind direction and the information you’ve plotted on your map. Explain the location and size of any cyclones (Low pressure systems) or anticyclones (High pressure systems)?

b. Is there a relationship between H and L pressure systems and the fronts that you drew on your map? Describe things that H and L centers **have in common** and **things that are different.**

6. Find a video of a meteorologist presenting a weather forecast on the internet and list three ways in which the maps are designed to help viewers understand HOW THE WEATHER IS DETERMINED.

1.

2.

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