

WHERE DO THE WINDS BLOW:

Look back at your Gas Laws Lab to record the density of air: _____

What information do we have from this value?

Think back to the Weather Water Tanks Lab. Draw a body of warm air collides with cold air:

For each air mass label:

- a) high pressure or low pressure
- b) Draw an arrow to show which direction the air masses will move based on pressure

Where do winds blow? Look at the map below and mark the two highest pressure places with an H. What type of weather would you expect here? Explain

Now, mark the two places with the lowest air pressure What type of weather would you expect here? Explain

Follow along with your teacher to construct isobars. What are isobars?

After drawing in the isobars, follow the demo for constructing arrows that indicate the direction of the winds. Do not forget the Coriolis effect.

Now that your wind map is complete: List 3 trends (rules) for wind direction and strength:

1. _____
2. _____
3. _____

How does the air move near the center of a low pressure system? _____

How does the air move near the center of a high pressure system? _____


