| Name_ | Key | Date |
|---------|------------------------|------|
| Atmospl | heric Pressure Systems | |

1. Define air pressure: the force applied on the Earth's surface by the Weight of the air above the surface 2. What instrument is used to measure air pressure?

Barometer

3. What units are used to measure air pressure?

* millibars (mb), * iniches (in.), or pounds per in2 (psi)

| Atmospheric Pressure Systems | | | |
|------------------------------|-------------------------------|--|--|
| Pressure | High | Low | |
| Temperature | cool | warm | |
| Wind Rotation | Clockwise - | Counter-clockwise | |
| (Northern Hemisphere) | I moves out from center | Denter pulled to | |
| Moisture | dry | moist | |
| Weather Map Symbol | H Blue | 1 Red | |
| Rising or Sinking Air | Sinking | Rising | |
| Weather Associated | Clear skies, sunny, dry | Cloudy Skies, low levels of sunshing wet | |

1. Explain the relationship between temperature and barometric pressure near Earth's surface.

As temperature rises, barometric pressure decreases. I

As temperature drops, barometric pressure increases. It ?

2. How would a decrease in atmospheric pressure affect weather?

As pressure drops, air rises, condenses, and bad weather can occur.

3. How would a decrease in air temperature affect atmospheric pressure? As the temperature gets colder, air sinks, resulting in a higher air pressure (nice weather)