



Earth Science Virtual Learning

**HS Earth Science
Pressure Systems**

April 27, 2020



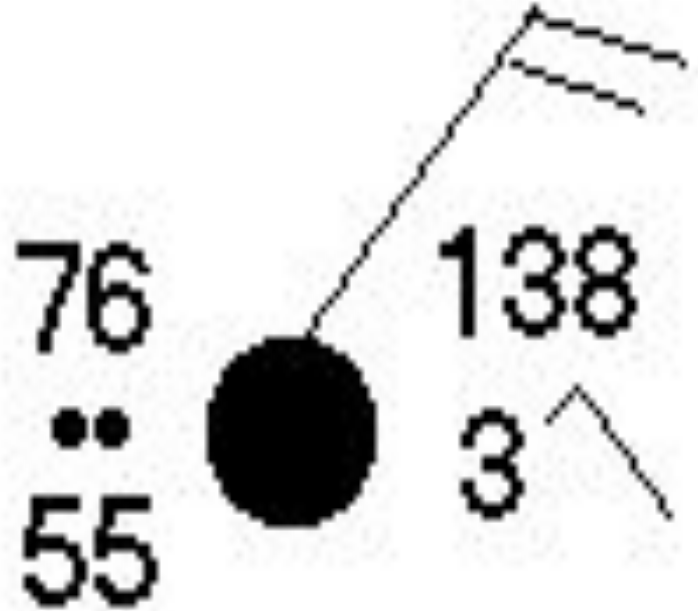
High School Earth Science
Lesson: April 27, 2020

Objective/Learning Target:

Students will be able to describe the causes and effects of pressure systems.

Warm Up

1. What is the temperature according to this weather symbol?
2. What type of weather should be expected?
3. What is the wind direction and its speed?





Warm-Up Answer Key

1. 76 Degrees Fahrenheit
2. Light Rain
3. North east at 20 knots



Lesson Activity:

Let's begin by getting out a blank sheet of paper and something to write with. On the paper, make a large T chart. Label the left side High Pressure System, and the right side Low Pressure System. As you watch the video, take notes over the two air systems in the appropriate column.

When you are ready, watch this video [HIGH AND LOW PRESSURE SYSTEMS](#) and take good notes. Remember that you can pause the video to allow more time to write your notes.



Practice Questions

On your paper, read each question below, then respond by writing high pressure or low pressure as the correct answer.

- 1) Which is caused by sinking, dense air?
- 2) Which is associated with cloudy skies?
- 3) Which system rotates counter-clockwise?
- 4) Which system is designated with a blue letter on the weather map?
- 5) Which weather system draws air into the system at the ground level?

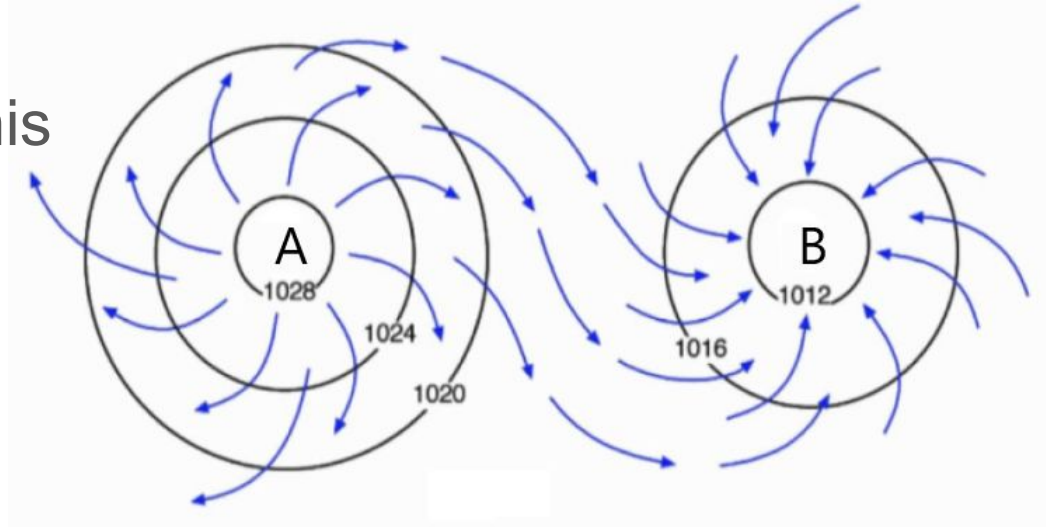
Practice Questions KEY

On your paper, read each question below, then respond by writing high pressure or low pressure as the correct answer.

- 1) Which is caused by sinking, dense air? **HIGH PRESSURE**
- 2) Which is associated with cloudy skies? **LOW PRESSURE**
- 3) Which system rotates counter-clockwise? **LOW PRESSURE**
- 4) Which system is designated with a blue letter on the weather map? **HIGH PRESSURE**
- 5) Which weather system draws air into the system at the ground level? **LOW PRESSURE**

More Practice Questions

1. What is system A?
2. What 3 things support this claim?
3. What kind of weather is expected at B? Why?





More Practice Questions Answer Key

1. A is a high pressure system.
2. It is spinning in a clockwise direction, there is an increase in pressure as you move inwards, and it is contributing to the low pressure system building.
3. B would expect cold, cloudy, and precipitation, kind of weather.



Extra Resources

Want more information on high and low pressure systems here is an [article](#) to help.

Here is another good reading with more information on pressure systems: [High and Low Pressure](#)

Here is a quick video summary over high and low pressure systems: [Weather Basics High and Low](#)