

Meteorologists use different types of maps to show the elements of the weather

[How to Read a Weather Map \(youtube.com\)](#) 5 min

[How to Read Weather Maps \(youtube.com\)](#)

[The Incredible Logistics Behind Weather Forecasting - YouTube](#) 21 min



Air Pressure

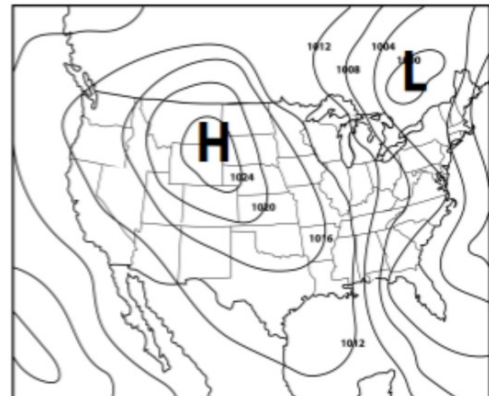
Air has mass and because it has mass, it has weight. Air pressure is the weight of the air pressing on everything around it. It presses on objects from all sides. Air pressure is measured with a tool called a barometer. There are two types of barometers. One has liquid inside and looks like a thermometer. Another type is called an aneroid barometer. Air presses on parts inside this barometer and the parts move a pointer. The pointer shows the air pressure.



Air pressure can change. Three conditions can have an impact on the air pressure. Water vapor makes air moist. Air that is moist has a lower air pressure. Dry air has a higher air pressure. Temperature also can change the air pressure. When it gets warmer, air pressure goes down. When the air is cooler, air pressure goes up. Lastly, the altitude can impact air pressure. Air at high altitudes is thinner, which means the air molecules are more spread out. As altitude gets higher, air pressure goes down.

When the air pressure changes, you can tell that the weather will change. If the air pressure rises, it means that clear weather is on its way! If the air pressure falls, get ready for wet or stormy weather!

Weather forecasters refer to high and low pressure areas during their weather forecast. On a weather map, L refers to low pressure and H refers to high pressure. Air rises where there is low pressure. This area of the map will have precipitation. In a high pressure system, air sinks towards the Earth, which leads to dry, nice weather.



1. What weather tool measures air pressure?
2. List the three conditions that can impact air pressure?
3. Describe what the weather might be like if you're near a low-pressure system.

let's learn about **AIR PRESSURE**

Name: _____

Find words in the wordsearch. Write them on the lines provided.

D	T	H	L	R	T	S	S	M	J
H	W	E	I	G	H	T	N	O	A
G	H	F	Q	R	G	O	T	I	N
H	L	W	U	Y	N	R	H	S	E
I	R	J	I	I	Y	M	I	T	R
G	W	T	D	O	I	Y	N	I	O
H	L	R	E	T	R	U	N	K	I
E	P	P	O	I	N	T	E	R	D
R	T	Y	S	R	R	J	R	S	R
E	A	L	T	I	T	U	D	E	Y
B	A	R	O	M	E	T	E	R	E

Use the words you found to complete the paragraph about AIR PRESSURE.

Air has mass and therefore it also has _____. Air pressure is measured with a _____. One type of barometer has _____ inside and looks like a thermometer. Another type is called an _____ barometer. Air presses on parts inside a barometer and the parts move a _____ that indicates the air pressure. Water vapour makes air _____. _____ can impact air pressure. Air at high altitudes is _____. As altitude gets _____, air pressure decreases. If air pressure drops, _____ weather is on its way.