

# Weather Study Guide

1. An instrument that measures temperature.	1 <b>thermometer</b>
2. An instrument that measures wind speed.	2 <b>anemometer</b>
3. An instrument that measures humidity.	3 <b>hygrometer</b>
4. An instrument that measures air pressure.	4 <b>barometer</b>
5. An instrument that measures wind direction.	5 <b>wind vane</b>
6. An instrument that measures the amount of precipitation.	6 <b>rain gauge</b>
7. The boundary between air masses that have different temperatures.	7 <b>front</b>
8. Cold air pushing into warm air mass causes a ___ front.	8 <b>cold</b>
9. Air masses of different temperatures meet and do not move causing a ___ front.	9 <b>stationary</b>
10. Warm air pushing into a cold air mass causes a ___ front.	10 <b>warm</b>
11. Air in motion	11 <b>wind</b>
12. Daily condition of the atmosphere.	12 <b>weather</b>
13. A large region of air that has the same temperature and moisture.	13 <b>air mass</b>
14. Average weather in a certain place over a long period of time.	14 <b>climate</b>

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15. Amount of water vapor in the air.	15 <b>humidity</b>
16. The force of an area from the push of air.	16 <b>air pressure</b>
17. Wind is produced when air moves from a place of _____ pressure to an area of high pressure.	17 <b>low</b>
18. Beautiful, sunny days often have _____ clouds or _____ clouds.	18 <b>cumulous cirrus</b>
19. When a thunderstorm is coming, _____ clouds may be present.	19 <b>cumulonimbus</b>
20. Gray skies with light rain all day have _____ clouds.	20 <b>stratus</b>

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To describe weather scientists measure the four properties of air. They are:

1. wind
2. air temperature
3. humidity
4. air pressure

Air in motion is called **wind**.



A **wind/weather vane** tells the direction the wind is blowing.



A **thermometer** measures how hot or cold the air is.

A **rain gauge** measures the amount of rain that has fallen.



A **barometer** measures air pressure.

A **hygrometer** measures humidity, or water vapor in the air.



An **anemometer** measures wind speed.

Types of Clouds	Description
<b>Stratus</b>	Flat, layered, gray clouds
<b>Cumulus</b>	Thick, white, billowy clouds
<b>Cirrus</b>	High, wispy clouds composed of ice crystals
<b>Nimbus</b>	Large, dark gray clouds

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air masses	large regions of air that have the same temperature and moisture
front	the boundary between air masses that have different temperatures
warm front	warm air pushing into a cold air mass
cold front	cold air pushing into a warm air mass
stationary front	air masses of different temperatures meet and do not move
weather	<b>daily</b> condition of the atmosphere
climate	<b>average</b> weather in a certain place over a long period of time
air pressure	the force of an area from the push of air

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