

# Science Study Guide

## Chapter 5: "Earth's Weather"



### EARTH'S ATMOSPHERE

- The **troposphere** is the layer of **gas** closest to the surface of the Earth. It is the layer of the atmosphere where most of Earth's **weather** occurs. It also contains **99 %** of the air in the atmosphere.
- As you get higher in the atmosphere, the space between particles **increases** which causes the air pressure to **decrease**. Therefore, the top of a mountain has **less** air pressure than the base of a mountain.

1) What is air pressure?

Air pressure is the force put on a given area by the weight of the air above it.

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2) The lower the altitude, the **higher** the atmospheric pressure.

3) Name the three variables that can change air pressure.

The three variables that can change air pressure are volume, temperature, and humidity/amount of water vapor.

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4) Mercury and aneroid are two types of **barometers** that are used to measure **atmospheric pressure**.

5) What would the weather conditions probably be like in an area with high barometric pressure? Would it have a high or low altitude?

The weather conditions in an area with high barometric pressure would probably be cold and dry conditions with low altitude.

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6) Name one place on Earth that would most likely have low barometric pressure. Why (what are the weather conditions usually like)?

One place on Earth that would most likely have low barometric pressure would be Florida because it is warm and humid. (wet weather means low barometric pressure)  
(dry weather means high barometric pressure...example: Death Valley)

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### AIR CURRENTS AND WIND

# California Science Study Guide

**Houghton Mifflin Company**



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