**Air Pressure Activity**

**Objective:** Students will learn to identify and define the properties of air. Identify and describe how instruments used to measure air pressure. Explain how increasing altitude affects air pressure.

**Part 1:** Using pages 25 -30, define the following terms:

Density, pressure, air pressure, barometer, mercury barometer, aneroid barometer and altitude.

**Part 2:** Construct a model showing how altitude affects air pressure and density. Use figure 12 and the description on page 30 as an example.

**Part 3:** Use **complete sentences** to answer the following questions in your composition notebook.

1. What are some of the properties of air?
2. How do we calculate density? Explain. (hint= include the formula with explanation)
3. How does increasing the density of gas affect its pressure?
4. Explain how a mercury barometer measures air pressure in comparison to an aneroid barometer.
5. What are the two common units used to measure air pressure?
6. If you were standing on the top of Mt. McKinley, why would it be difficult to breathe?
7. What changes in air pressure would you expect, if you carried an aneroid barometer down a mine shaft? Explain.