**Cloud Protocol**

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**Problem**

Do cloud patterns change in the sky?

**Purpose**

To observe the type, cover and capacity of clouds and to view them from the ground into the atmosphere.

**Hypothesis**

Yes, we think that the patterns change over the sky within a day and throughout the year.

**Site Location**

Playground area of Beneke Elementary, Houston, Texas

**Materials**

Clouds Data Sheet

Globe Cloud Chart

Cloud Protocol Field Data

Contrail Formation Sheet

Pencil

Science Log Notebook

**Steps**

1. Determine what type of clouds is in the sky. This is based upon the data sheet used.
2. Identify the sky color and visibility
3. Identify what type of clouds you see (Cirrus, Stratus and Cumulus)
4. Identify if we see low or middle level clouds
5. Identify the surface conditions using the information on the chart

**Results**

After 3 days of monitoring the clouds from the ground looking into the sky at the same time each day we determined that yes, cloud patterns do shift in the sky. They shift forward and backwards. The results showed that we averaged 72 C on clear days with no rain all three days. We observed the clouds in a grassy area where we had trees and other forms plants close by but none of them where in the way of us being able to clearly see the sky.

**Conclusion**

We concluded that the movement of the clouds assists in providing a defense for global warming on the earth.