

GLOBE Atmosphere Investigation Materials List

- Facilitator Guide
- Introductory Video
- Student Science Research Journal
- Chart paper or board to post responses
- GLOBE Cloud Charts
- Hand-held Infrared Thermometers (IRT) one per group
- 5 plastic containers of the same size
- Equal amount samples of sand, soil, grass, and gravel or rocks
- Outside area in a sunny location (5 desk lamps or shop lights with 100-watt bulbs can be substituted)
- Stopwatch or timer
- Four outside locations with different surface materials where surface temperature observations can be completed
- Light colored construction paper or cardstock
- Glue Sticks or Clear Tape
- Scissors
- Copies of single line plots and double line plots from the Cloudy vs Clear Learning Activity
- Materials for What's Visual Opacity? Learning Activity
 1. Transparent items (cellophane, drinking glass or glass jar)
 2. Translucent items (wax paper, frosted contact paper, tracing paper, parchment paper, or tissue paper)
 3. Opaque Items (construction paper, cardboard, aluminum foil, cotton balls)
 4. Light source (small desk lamp, overhead light, natural light from the Sun)
 5. White paper
- NOVA Video: The Climate Wild Card
- Colored Pencils
- Calculators (optional)
- Materials for construction of students' culminating projects: (posters, construction paper, cardstock, graph paper, colored pencils, markers, notecards, photos, etc.)