

Activity #3-'BOOM' - Make It Fly With Radiation

Activity Time: 30-minutes

A warm, sunny day is recommended to do this activity.

1. Take students outside on the playground and have them sit in a circle.
2. Unfold the black deflated solar bag in the center of the circle.
3. Ask students to problem solve variables to be considered in order to make the black solar bag fly.
4. Choose one student to take the solar bag and run with it. When it is full of air, tie off the ends.
5. Place the semi-filled solar bag in the middle for further observations.
6. As the sun heats the air inside the solar bag, have students record in their journal what is happening and encourage them to make conjectures explaining what is happening in regard to conduction, convection, and radiation.

Note: Make sure to tether the solar bag with string so it does not fly away-especially with wind present.

Caution: Read all safety directions on your solar bag.

7. Have several students share their conjectures and discuss how the three means of heat transference all work together simultaneously to make the solar bag fly.

Solar Bags Can be purchased from Randy Campbell who owns Genesis Scientific located in Orem, UT. Call 801-367-3695.

Materials

- Solar bag
- String