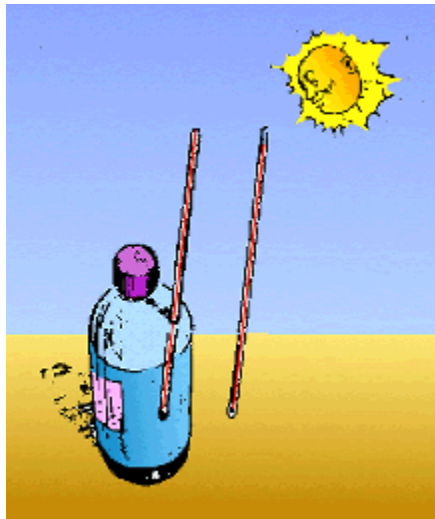


Lesson Plans: Your Own Greenhouse



Objective

The objective is to make your own small greenhouse and in a simple way to test its effect on temperature.

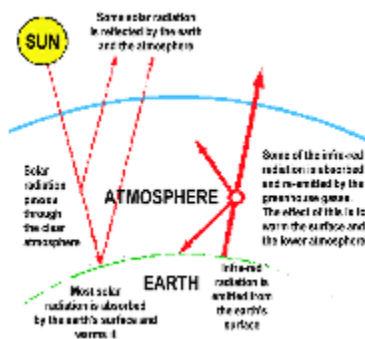
Materials

Each student or group of students will need the following:

- Plastic bottle
- Nail
- 2 thermometers

Important Points to Understand

In cooler climates greenhouses are used to control the environment of plants so that they can grow in a season or in an area where they would not normally grow. When you have a chance to visit some cold countries like New Zealand and some parts of Australia, try to visit a greenhouse and see how its environment is different to that outside.



Procedure

1. Make a hole near the top of the plastic bottle with the nail and insert one thermometer.
2. Place the second thermometer next to the bottle.
3. Make sure that the same amount of sunlight reaches both the thermometers as shown in the figure.
4. Record the temperature values from both thermometers after 10 minutes or so.
5. Take the temperature records again after another 10 minutes. You may repeat that procedure a few times

Questions

1. Do both thermometers record the same temperature?
2. If the answer is "no" for the previous question, which one is higher?
3. Can you explain why these two temperature records not the same?
4. Can you give a similar example to demonstrate the greenhouse effect in our daily life?