Air Condition

**What to do:** Place the soil sample in the jar. Pour the cooled, boiled water slowly onto the soil and watch closely.

**What happens:** Air bubbles appear and circle the top surface of the soil.

**Why:** All dry soil has air trapped in and around the particles. The bubbles that rise from the soil's surface are formed by air forced from the soil by the water. Water also normally contains its own air, which is why, for this experiment, it is necessary to use boiled and cooled water. During the boiling, the heated air in the water is boiled away. This experiment, then, reveals that it is the air from these soil that causes the bubbles and not the water.

**YOU NEED**
- small jar
- one half cup of dirt
- 1 cup of boiled and cooled water
- magnifying glass