

AQUA TIMES

Field Guide

Transpiration-Aspiration

Materials Checklist:

- Aquarium or large jar
- Several stones
- Small container
- Hot water
- A dark area
- 2 or 3 shade loving plants

Procedure Part I



1. Pour 1 inch of stones into the jar.
2. Place 4-5 inches of top soil on top of the stones.
3. Now, place the metal pan with ice cubes on top of the jar.
4. Place the small container, with water in it (the pond) on top of the soil in the aquarium or jar.
5. Put the plastic wrap or glass cover on top of the aquarium or jar and place it in a window that receives sun for a day.
6. Observe what occurs over the course of a portion of the day, and record your observations on the next page!



Transpiration



Observation I

What changes did you notice in your aquarium/jar when the water-filled container (pond) was in it?



Procedure Part II



1. Remove the water-filled container from the aquarium or jar.
2. Next, dig a small hole for each plant, place each plant in a hole and cover the roots completely with soil.
3. Put new plastic wrap over the aquarium or jar and place it in a window that receives sun for a portion of the day, and record your observations below!

Observation II

Did droplets form on the plastic wrap similar to your first set of observations?

