## **CREATE YOUR OWN AQUARIUM**

Just like the eight researchers who experimented with creating a self-sustaining environment, we will attempt to create our own self-sustaining ecosystem that thrives on the cycling of energy and other materials, such as carbon.

## Purpose

To create a self-sustaining closed ecosystem.

## **Materials**

- Bormioli hermetic glass storage jar (size between 2–5 liters)
- Organic potting mix
- Fluval stratum (or any other substrate used to stimulate plant growth)
- Water
- Aquatic plants, such as Java moss and Java fern
- A small living organism, such as a shrimp, snail, or fish (you can get one from a pet store)

## Procedure

- 1. Wipe out the jar to ensure that it is clean.
- 2. Place 2–5 cm of potting mix at the bottom of the jar.
- 3. Add 2–5 cm of fluval stratum.
- 4. Slowly add water until it covers the substrate.
- 5. Place some of your aquatic plants into the substrate.
- 6. You may choose to add in some rocks and/or a small piece of wood.
- 7. Slowly add water and some more aquatic plants (they don't have to be submerged).
- 8. Fill the rest of the container with water.
- 9. Insert one or two living organisms (shrimp, snail, or fish).
- 10. Seal your jar with the lid. Place the ecosystem near the window or under a light source.

\*For a faster and more natural setup, you may consider just gathering all your materials from a local pond into a jar before sealing it and placing it under a light source.

