**Bottle of Biosphere Activity Questions**

1. Draw a representation of your bottled biosphere. Be sure to label all of the materials.
2. If the bottle is sealed and no air can get in or out, how do the plants get enough carbon dioxide?



1. What would happen to the biosphere in the bottle if you placed it in a sunny window?



1. What might **limit** the amount of plant growth in the bottle?



1. The Earth’s biosphere and the bottled biosphere resemble one another. Both use light energy and not much else enters or leaves either system. However, there are some major differences between the Earth and the bottled biosphere. Describe at least 2 differences.



1. What would happen to the bottled biosphere if a small amount of toxin was present in the soil when you added it to the bottle? Why?



1. Name the 5 Earth spheres. Are any of them interacting in your bottled biosphere? If so, name them and tell how they interact?



1. If you place the bottled biosphere under a grow lamp, the temperature inside the bottle will rise slightly, then remain constant. Why doesn’t the bottle continue to get warmer as long as the lamp is on?



1. What would happen to the biosphere in the bottle if you could increase the concentration of carbon dioxide gas in the air inside the bottle?

