

Please use the following resources to learn about the rain shadow effect.

Watch this Video: <https://www.youtube.com/watch?v=DoKTTHd-XEQ&t=1s>

Answer these questions:

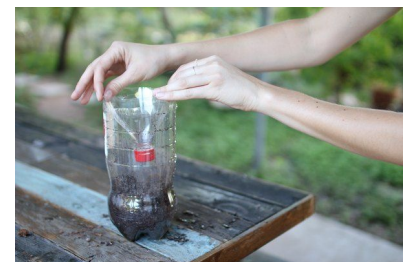
- What is the rainshadow effect?
- What 3 conditions are required for the rain shadow effect to occur?
- Name 4 locations scientists have found the rainshadow effect

Activity: Follow these directions to make your own ecosystem.

You will need:

<ul style="list-style-type: none"> ● 1 2-liter soda bottle (clear) ● Scissors 	<ul style="list-style-type: none"> ● Clear tape 	<ul style="list-style-type: none"> ● Soil ● Plant seeds
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1. Rinse out the soda bottle and peel the label off.
2. Cut off the top of the bottle right before the neck starts to taper toward the cap.
 - a. Save the top and the cap to use on the completed ecosystem.
3. Place 3 to 4 inches of soil in the bottom of the bottle.
 - a. Lightly tap the bottom of the bottle so the soil settles, but do not pack it in.
4. Plant seeds in the soil.
 - a. For bean seeds, plant 4 to 6 bean seeds 1 inch deep, close to the sides of the bottle. Beans are a hardy seed which will grow easily.
 - b. If you select another kind of seed, plant to the depth indicated on the seed packet.
 - c. For grass seeds sprinkle 2 pinches on top of the soil and lightly cover them with the dirt.
5. Sprinkle water onto the soil until it is damp all the way to the bottom but not soaking wet.
6. Screw the cap onto the cut-off top of the bottle. Place it upside down into the opening.
7. Seal the edges with clear tape.
8. Place in a warm, partly sunny spot. The ecosystem will not require watering again.



Make observations & use Claims, Evidence, and Reasoning!

1. **Claim:** An ecosystem can be any size.

- **Evidence:**

- **Reasoning:**

2. **Claim:** An ecosystem has living and nonliving components.

- **Evidence:**

- **Reasoning:**