

Supplies:

- Clear Plastic Container, Light-colored
- Pebbles, Soil, Moss (or grass clippings),
- Paper Cup (punch holes in bottom), Pencil
- (sharpened), Blue Food Coloring, Water
- 1. Add light-colored pebbles to a rectangular container and mold the rocks into a hill against one side of the container at a 45 degree angle.
- 2. Add a layer of soil to cover the rocks and pat the soil down gently.
- 3. Use moss (or grass clippings) to form a layer of vegetation on the hill.
- 4. You will need two paper cups poke 15-20 holes in the bottom of one cup using a sharpened pencil (to create a "rain can"); fill the other cup with water and add a few drops of blue food coloring to make "rain."

- Hold the cup with holes in the bottom over your container & pour the blue water in to make it rain.
- 6. Watch what happens as the water flows over the land, seeps through the soil, and flows between the rocks.
- 7. Do you see <u>surface water</u> on one side and <u>groundwater</u> ("an aquifer") on the other side?
- 8. Now, take the spray nozzle from a spray bottle and push it down into the rocks to meet the water.
- 9. Pump the nozzle until water starts to spray out. This represents groundwater use or "withdrawl."

Source: The University of Waikato