

9. Pull back the plunger of the syringe to create a vacuum. Water will be drawn from the pebbles/sand into the tubing and ultimately into the syringe. Discuss with students that this represents how ground water is pumped from aquifers.

10. Add a few drops of red food coloring to the sand. Explain to the students that the red food coloring represents a pollutant. Discuss what kinds of substances can pollute ground water.

11. Apply more water to the sand.

12. Continue "pumping" water from the tumbler with the syringe. When the syringe fills with water, remove it from the tubing and pour the water into the clear glass container. Refasten the syringe to the tubing and continue "pumping" water. Ultimately, the water in the clear glass container will have a reddish hue. Discuss with students how the "pollutant" applied at surface level has "contaminated" the "ground water" in the experiment.

Extension/ Evaluation Discuss with students how groundwater contamination occurs in real-life situations and how it can be prevented. In additional, a film or filmstrip can be shown on ground water.

Groundwater Model

