

Water Filtration Unit

Student Worksheet

1. Obtain a clean two-liter plastic beverage container with a cap for each group and one additional two-liter plastic container.
2. Cut each bottle in half. Tape the rim of each half with masking tape to protect students from the sharp edges. The bottom part of the bottle will be used as a catch basin for water. The top section of the bottle will act as a filter.
3. Poke several holes in the cap.
4. Discuss why most well water is clean enough to drink.
5. Screw the cap on the bottle and place one tablespoon of clean gravel in the neck of the filter to keep the soil from clogging the holes in the cap.
6. Place two cups of soil in the filter.
7. Place the filter in the catch basin.
8. Provide two cups of dirty water and pour this water slowly on top of the soil and at the same time start the stopwatch.
9. Hold filters above the catch basin to keep the cap and neck of the bottle from touching the percolated water in the catch basin.