



## Water Filter

How does water move through sand and soil?

### What you'll need:

- Plastic bottle (cut in half)
- Piece of cloth
- Small rocks, sand, gravel, or a combination of all three
- Rubber band
- Water



### Here's what to do:

1. Cut the water bottle in half.
2. Stretch the small piece of cloth over the mouth of the bottle. Secure the cloth with a rubber band.
3. Flip the top half of the bottle and fit it into the opening of the lower half (see photo to the left).
4. Fill the top half with sand, rocks, gravel, or a combination--this is your filter!
5. Mix a small cup of water (less than half the size of the bottle) with some dirt. Pour the dirty water into your filter.
6. Observe what happens! How does the water move through the sand, rocks, and/or gravel? How does the water change in the process?

### Explore further: Community Conversations

- Who could you talk to to find out where your water comes from? How does the water get from the source to you?
- What is an aquifer? Do you or anyone in your community use well water from an aquifer?
- What is an acequia? Are there acequias in your community? How are they used?