



## WATER FILTERING SYSTEM

### Ingredients

- Empty Water Bottle
- Empty Transparent Cup
- Cotton
- Gravel
- Pebbles
- Sand
- Dirty Water

### Science Terms

- **Water** – A colorless, usually liquid, material made from hydrogen and oxygen.
- **Filter** – To clean or strain a liquid that has passed through a filter.

### Instructions

**STEP 1:** Remove the bottom of the empty water bottle.

**STEP 2:** Place a piece of cotton into the neck of the empty water bottle.

**STEP 3:** Turn the empty water bottle upside down and then rest the bottle on the top of the empty cup.

**STEP 4:** Place about one inch of pebbles on top of the cotton, then one inch of gravel on top of the pebbles, and finally one inch of sand on top of the gravel.

**STEP 5:** Pour the dirty water into the top of the empty water bottle allowing the water to filter through each later into the empty transparent cup at the bottom.



### Explanation

As the water passed through your filtering system the impurities were held back by the different layers of materials. Although the dirt was eliminated from the water there could still be harmful bacteria in the water making it undrinkable.

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