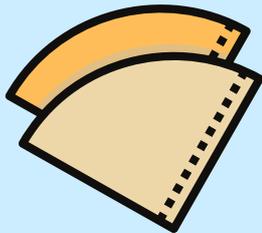




# Homemade water filter

How do you clean dirty water? Not with soap or detergents! You need a filter, a device that removes impurities, like dirt.

At Hunter Water, it's our job to ensure that we provide you with fresh, clean drinking water supply that we can use to grow our food, wash our clothes and, most importantly, to drink. We love water!



## What you need:

- Clear jar
- Jar of dirty water (mix dirt and water)
- Plastic cup with holes in the bottom
- Sand
- Rocks or gravel
- 2-3 coffee filters
- Optional - charcoal can be added as an extra fine filter



## Method:

1. Place the cup in the jar
  2. Place 2-3 coffee filters inside the cup
  3. Place a few tablespoons of sand into the filter
- Note: Charcoal can be added before the sand if you are using it.
4. On top of the sand place a layer of gravel.
  5. Shake the dirty water to mix.
  6. Pour the dirty water into the jar with the filter and wait for it to filter through.

## What did we learn?

The gravel layer takes out the larger dirt particles in the water. It then filters down to the sand, which is a wonderful natural filter for cleaning out smaller particles of dirt. Finally it hits the last coffee filters and is cleaned even further. Even though it is not quite clean enough to drink, this water could now be used to water the plants and grass. So don't waste it!

This is a similar filtration process to the one we use in our treatment plants. It's important to remember that we all need to play our part need to keep our drinking water catchments healthy to reduce the impacts this has on our treatment process.

- Correctly dispose of green waste
- Retain landscaping to reduce soil erosion
- Dispose of detergents, chemicals and oils correctly
- Wash your car away from drains and gutters
- Pick up and dispose of litter correctly



For more experiments or educational resources visit:  
[hunterwater.com.au/schools](http://hunterwater.com.au/schools)