

Make a simple water filter



Where did you get your water today?



Was it clean and safe to use and drink?

We filter your drinking water every day, so you don't have to!

Try this experiment to work out what makes a good water filter

What you'll need...

- 4 x plastic bottles with lids
- 'muddy' water sample
- 1 cup measure
- 4 x Jars
- Scissors

Any four of these filtering materials.

- sand
- coffee filter
- cotton wool
- sponge
- wood chips
- small gravel
- stones
- paper towels



Let's do this!

1. Cut the bottom off the plastic bottles.
2. Punch a hole in the lid to allow drainage.
3. Turn the bottle upside down into the jar.
4. Choose four materials and place one in each of the bottles.
5. Shake your muddy water sample.
6. Slowly pour one cup of muddy water into each of the filters.
7. Save some muddy water for comparison later.



Make a prediction!

Which materials do I think will filter the best?


What happened?

Was I right?
Which water is more clear?
Which filter worked the best?
What other items can I try?



Would you like to see how our experiment turned out?
Visit sydneywater.com.au/education

Did you know?



All water comes from the natural environment and we have many sources of water we use for different purposes.

We take many steps to produce great quality drinking water that is clean and safe for almost five million people every day.

We do this by:

- ◊ Working around the clock to treat and filter every drop to meet the Australian Drinking Water Guidelines.
- ◊ Monitoring our water with over 70 tests for safety and quality.
- ◊ Engaging with our community about water conservation.
- ◊ Planning for a resilient and liveable city.



There's lots to learn about water!

Visit sydneywater.com.au/education

Are you a high school, tertiary or community group?

Visit sydneywater.com.au/tours to book your behind the scenes experience.