A Model Water Filter

See how layers can strain muddy water



YOU NEED

- a plastic bottle (cut by a grown-up)
- cotton or a coffee filter
- sand
- small gravel
- a cup
- water mixed with a little soil

Ask a grown-up to help

TRY IT

1. A grown-up cuts the bottle in half. Turn the top upside down as a funnel.
2. Layer cotton at the neck, then sand, then gravel.
3. Pour the muddy water slowly through the layers.
4. Compare the water that comes out with the water that went in.

WHAT IS HAPPENING

Each layer catches particles of a different size, from stones to fine dirt. This is filtering, a way to separate a solid from a liquid. Real water treatment has more steps.

SAFETY FIRST

This is a science model only. The water that comes out is NOT safe to drink. A grown-up must do the cutting.

Never mix cleaning products, and never taste experiments.

creouts.com · © Creouts Publishing · Free for home and classroom use · Not for resale or redistribution