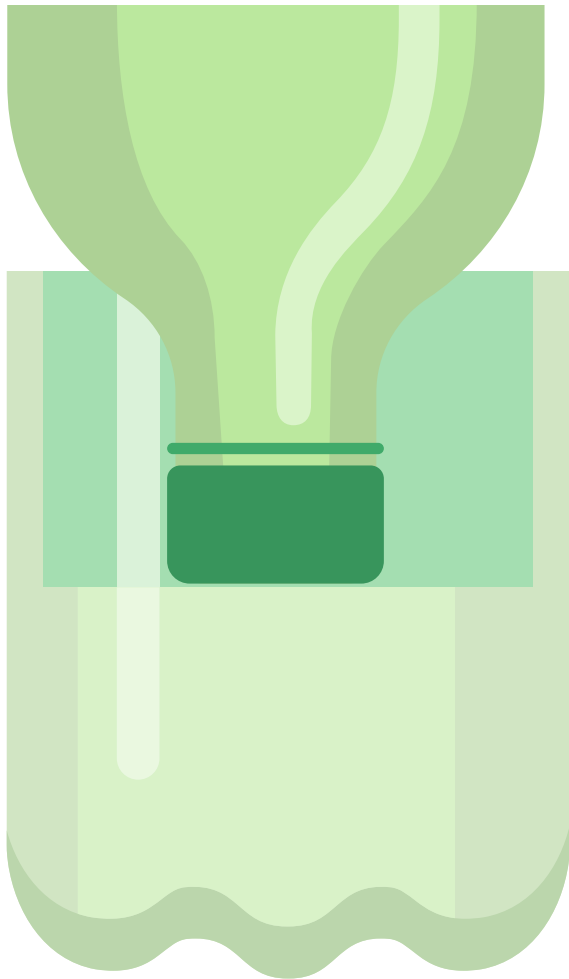


Water Filter - Activity Guide



While completing the trials, please write down any observations related to color, speed of filter, how much it soaked up, how well it worked, etc.



Coffee Filter Notes:

No right or wrong answer here...

Should be relatively clean/clear, medium filter speed, easy setup etc.

Pebbles Notes:

No right or wrong answer here...

Fast filter speed, maybe some residue leaked through, etc.

Gauze Pad Only Notes:

No right or wrong answer here...

How did it stack up to when coffee filter or pebbles were on top of it?

Super Filter 1 Notes:

No right or wrong answer here...

Make notes about what materials were used and how they worked.

Optional

Super Filter 2 Notes

No right or wrong answer here...

Make notes about what materials were used and how they worked.



Quiz



1. Why did we need to build these water filters in the first place?

You are theoretically stranded on a hike and tasked with filtering water you would be comfortable drinking.

2. What was the only way to clean water before advanced filtration techniques?

~Boiling it or straining it

3. What happens to the water when it rains?

Some makes it in drains, some evaporates, and lots gets soaked into ground

4. Describe ground water / aquifers in your own words?

A lot of the water on Earth is below the surface in aquifers and is considered groundwater. Oftentimes we pump groundwater back up to the surface.

5. Describe in your own words the filtration process that cities use to filter water before sending it to people: Feel free to put graphic back on screen.

Pumped out of aquifers through wells. Add chemicals / minerals, separate unwanted particles, filtration, disinfection then storage/distribution!

6. What do you think about a career as a geologist?