## Water Filtration Experiment

## Purpose:

To explore how water filtration allows us to purify dirty water.

Note: We do not disinfect water in this experiment, so it is not safe to drink.

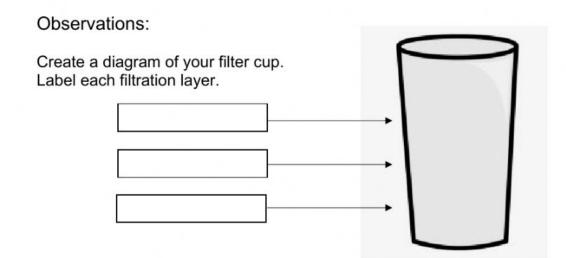
## Materials:

- 1 glass jar
- ½ cup sand
- ½ cup gravel
- 1 measuring cup
- · 4 coffee filters
- 1 cup "polluted/dirty" water (combine water with a handful of dirt, mud, leaves, bits of plastic)
- · A plastic cup with a hole in the bottom

## Steps:

- 1. Line the plastic cup with all four coffee filters.
- 2. Next, add ½ cup of sand.
- 3. Then, add ½ cup of gravel.
- 4. Place the bottom of the cup in the jar.
- 5. Use the measuring cup to pour the dirty water into the plastic cup. Watch the water filter through the cup into the jar.

\*\*Keep some of the dirty water to compare at the end.\*\*



\*\*\*\*\*\*\*\*\*\*\*

Water before filtration	Water after filtration
Colour:	Colour:
Smell:	Smell:
Transparency (Is it clear?):	Transparency (Is it clear?):
Is it drinkable?	Is it drinkable?
Discussion:	
Even if the water looks clean, could	it still be undrinkable?
Vhat kind of pollutants may not be	filtered out using a homemade filter?

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