

Experimental Filtration Station

Pollution is any contamination of air, water, and/or land that affects the balance of the environment. This activity will provide students an inquiry based opportunity to experiment with natural process of water filtration.

Materials:

Solo cup with a hole cut in the bottom

Mason Jar

Run-off water from Watershed activity

Sand

Gravel

Coffee filters

Directions:

In a plastic cup, start by lining the bottom with 3-4 coffee filters. Then place a layer of sand followed by a layer of gravel.

Place the cup into an empty (mason) jar. Pour the dirty water (run-off water from Watershed Activity) into the solo cup so it can filter down through the gravel, sand and coffee filters.

Notice the difference in the water before and after! Have students discuss using the [Think, Puzzle, Explore protocol](#).

Extension: Have students use their questions to research and explore the filtration process.

Source:

<https://teachbesideme.com/water-filtration-experiment/>

Adapted by: The Learning Alliance

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Explain how scientists alone or in groups are always investigating new ways to solve problems.