

# Sparkling Water!

Have you ever wondered where the water you drink comes from?  
Learn how engineers provide you with clean water every single day.

## PROGRAM PREMIERE

**Youtube - Cal Poly Pomona ASCE**

Friday, September 4, 2020 @ 10:00AM

## Filter Your Own Water

### Materials Required:

- 2 plastic bottles, water, oil, dirt, scissors, coffee filters, gravel, and granular activated carbon.

### Instructions:

1. Cut a water bottle in half and recycle the top half with the cap. Get access to a dirty water sample: mix together  $\frac{1}{2}$  cup of water, 2 tablespoons of dirt, and 1 tablespoon of oil in the bottom half of the bottle
2. Cut the other plastic bottle in half. Remove the cap from the top half and place three coffee filters within it. Place this top half inside the bottom half. Make sure the hole you would drink from is facing down.
3. Come up with the materials for your filter: You can also use cotton balls, sand or gravel, granular activated carbon, etc. Play around with filter materials!
4. Pour these filter materials into the top half of your plastic bottle with the coffee filters.
5. Get your dirty water sample and pour this into your filter. See how clear your water looks now!
6. Caution: Don't drink the water, no matter how clean it looks!
7. Share your creations with us on Facebook or Instagram using the hashtag #cppasceSTEM



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