

LET'S DO CHEMISTRY

What's in the Water?



What's in the Water

Explore the water samples

How do sample A and B look the same? How are they different? Observe carefully. What does the liquid look like? What does it smell like?

Test the samples

Measure pH: Use the pipette to add one drop of each sample to a different pH strip.

Watch the color change and mark your results on the data sheet.

Compare your pH strip to the color chart. The number associated with the matching color is the pH of the water sample.

Measure salinity: Lift the clear lid on the end of the *refractometer* and use the pipette to add two drops of one of the samples onto the blue plate, place the lid down, and look through the eyepiece.

Look for the line between the white and blue areas and draw where you see the line on the data sheet. The more white you see, the saltier the water sample.

Wipe off the blue plate and lid with the cloth.

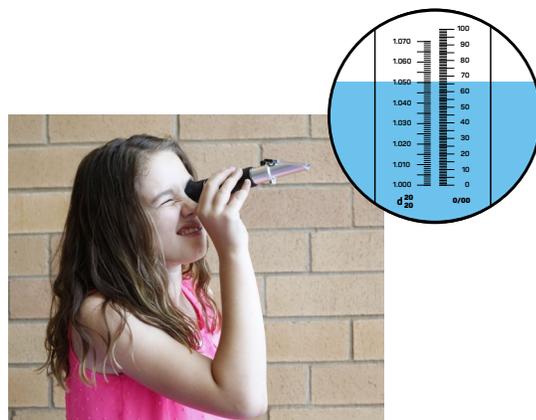
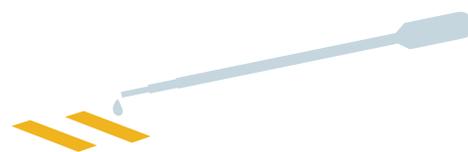
Repeat with the other sample.

Measure temperature: Dip the metal probe into one of the samples and wait for the numbers to stop moving.

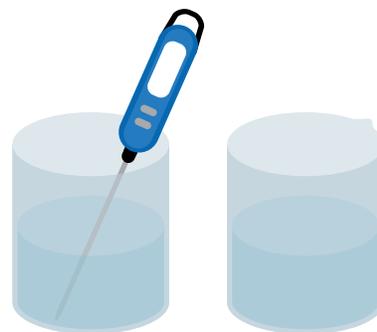
Write-in the digital temperature reading. The higher the number the warmer the water sample.

Use the cloth to wipe off the thermometer.

Repeat with the other sample.



You may need to point the tool at a light source while you're looking to get a better read.



Let's keep experimenting! Now, mix the two samples in the Sample C beaker. Use the tools to investigate this sample. What changes? What stays the same? What else did you notice?