How to measure the Electrical Conductivity of Water

1. Fill beaker to 30mL mark with water that you want to test.
2. Remove cap from Electrical Conductivity Meter. Do not touch the metal prongs.
3. Turn on.
4. Place tip of probe into water mixture.
  a. Record the top number from the readout in your science notebook. Be sure to record the units, either µS/cm (micro Siemens/centimeter) or mS/cm (milli Siemens/centimeter).
  b. If the screen displays "Or" you will need to dilute your water sample, see reverse side of card.
5. Use the dropper bottle to squirt the probe tip before replacing the cap.

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How to dilute and test a very salty water sample

1. Place the beaker on a flat stable surface.
2. Add exactly 20 mL of distilled water from the dropper bottle.
3. Use the pipette to add exactly 5 mL of the water you want to test to bring the total amount to 25 mL. Stir the water with the pipette.
4. Remove cap from Electrical Conductivity Meter. Do not touch the metal prongs.
5. Turn on.
6. Place tip of probe into water mixture.
  a. Record the top number from the readout in your science notebook. Be sure to record the units, mS/cm (milli Siemens/centimeter).
  b. Multiply this number by 5 to get the actual electrical conductivity of your water sample.
7. Use the dropper bottle to squirt the probe tip before replacing the cap.

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