## Water quality parameters:

pH
temperature
HOW?
dissolved oxygen
turbidty

WHY?

Measures acidity (H+ hydrogen) or basicity (OH hydroxide) Thigh acidity: Newtral Highly basic lots of  $H^{+}$   $(H^{+} = OH^{-})$  lots of  $OH^{-}$  few  $OH^{+}$ Both H+ and OH are very chemically reactive · Organisms are adapted to certain ptt's · ptt can affect abiotic factors rocks, sediment, leaves/stick

temperature: Measures the energy of the vibrations that all molecules have thermometer: O (elsius-Freezing (32° F) 100 Celsius-boiling (212° F) · Water with lower temperatures can hold more dissolved oxygen organisms are adapted to function well in a narrow range of temperatures

Dissolved Oxygen: Measures how much Oz gas is trapped in water Sensor: 0 mg/ 4mg/ - 11mg/L 15 mg/L Some organisms that live in water require DO to breathe (61LLS)

## Turbidity: Measures the particles suspended in water (cloudiness) Measured in NTU's 0 NTV ----- 1-2,000 NTV -1900+ NTV clear) (ridiculous) (clear) · Turbidity can clog some organisms' gills Increased turbidity increases sunlight absorption which increases temperature

which decreases Do

creek water 3 different sensors 30-60 sec. temp ·put electrode sol'n (Brown bottle) CALIBRATE + test 87 ("Hovering"s-mg) CALIBRATE, test O (Clear boldk + water) 100 (cloudy bottle)