

What?

How?

Why?

Temp.

Vibration of
atoms/moleculesThermometer
0 - 100 °C
freeze boil

- Organisms are adapted to a range
- Warmer water → less DO
- Drinking/recreation

pH

Ratio of H^+
to OH^- ions1 acid (H^+)
7 neutral
14 base (OH^-)

- Organisms are adapted to a range!

DO

 O_2 molecules
stuck in watermg/L
0-15 rangeAquatic organisms
use DO to breathe

Turbidity

"Stuff" in
water -
cloudySensor
0-500 NTU
(100 - cloudy)

- Drinking/recreation
- More turbidity → higher temp.
- Turbidity can clog gills or feeding organs

Today: in pairs measure the creek:

temperature: HUSTLE! 2-18 C (today 6-10 C)

pH: Good sensor! → pH strips
→ others 5.5-8 (today 6-6.5)

DO: Good sensor; good calibration 7-13 mg/L (today 10-11 mg/L)

turb.: good, frequent calibration 0-300 NTU (today < 25 NTU)

→ type up here in excel

→ collect lots!