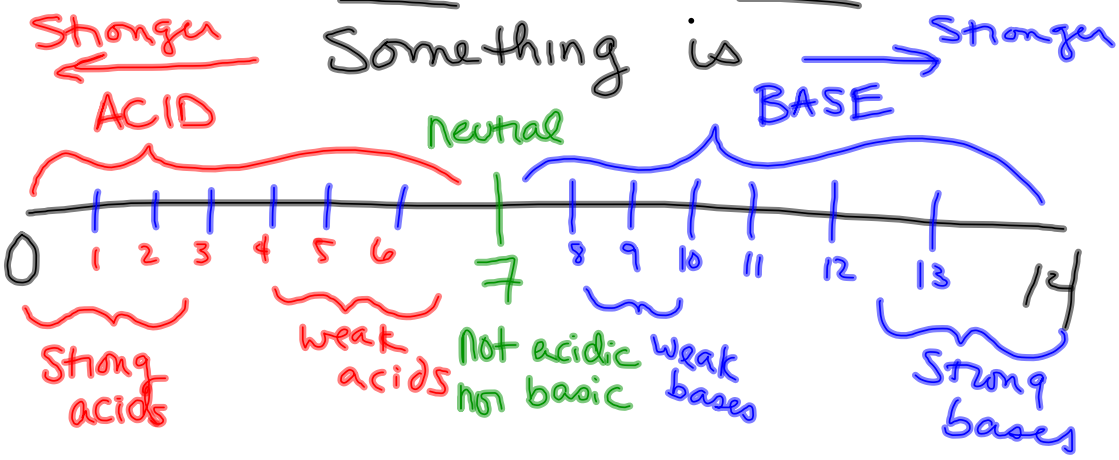
Mon + Tues @ the Creek:

- evaluate: pH
  dissolved oxygen
  temperature
  conductivity
  turbidity
  Coliform Bacteria

pH - a scale that we use to show how ACIDIC or BASIC something is



Examples:
- HCl (hydrochloric)
- stomach acid
- vinegar
- citric acid
- OJ, fruit juices

Bases:
- chlorine
- shampoo
- toothpaste
- pepto
- seawater
- cleaning products

* normal aquatic environments have a pH between 6.5 and 8.2

this pH range supports the highest diversity of life.

* the limestone in the bedrock in WNY makes our water slightly basic

this neutralizes the acid present in normal rainwater

Dissolved Oxygen -

Oxygen (O_2) that is mixed with water.

1 way O_2 gets into water....

waves + disturbances in surface tension

another way...

Photosynthesis!

We measure DO in ppm or mg/L

- anything 2 mg/L or less is LOW
- 6-8 mg/L and up is HIGH

Turbidity - a measurement of how clear the water is

* measures the amount of suspended stuff in the water

units - NTU

normal waters should be less than 10 NTU