

# Damaris Barajas

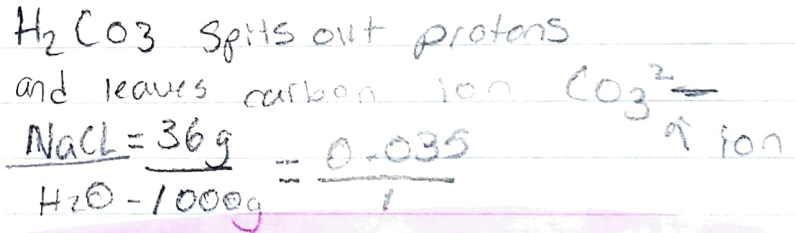
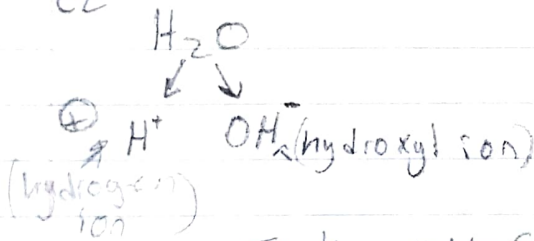
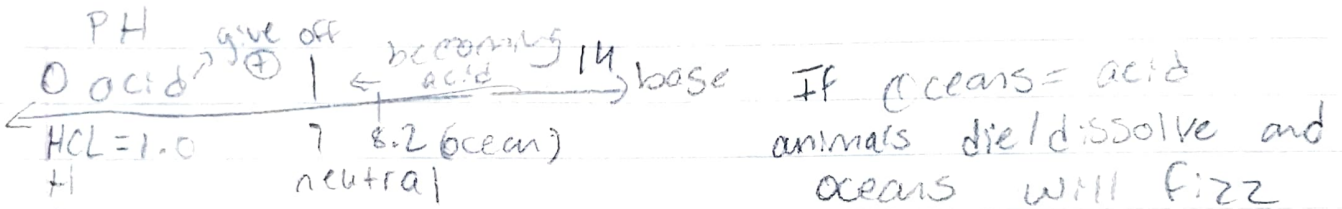
## In-class notes

- Learning math helps brain neurons expand.
- $\text{CO}_2$  is 430 parts per million (ppm)  $\rightarrow \frac{0.000,430 \text{ g}^{\text{of}} \text{CO}_2}{1 \text{ g of air}}$

$\text{CO}_2$  absorbed by oceans



Calcium carbonate dissolves in acid



Finding pH finding how many free hydrogens are in a sample of water.

$10^{-1} = 1/10$  (fraction) = .1 (backwards of  $10^1 = 10$ )

$(\text{pH} = \frac{\text{H}^+}{\text{H}_2\text{O}} \rightarrow [\text{H}^+] = 4 = 10^{-4} \rightarrow .0001 \text{ g}/1 \text{ g})$

pH is negative exponent (ratios)

EX:  $[\text{H}^+] = 2 = 10^{-2} = 1/100 = 0.001 \text{ g}/1 \text{ g}$  (counter intuitive)

mass ratio grams of things over 1

• carbon credits, companies get tax credits for reducing  $\text{CO}_2$ .

• carbon math is a job worth money

- $\text{C}_6\text{H}_{12}\text{O}_6$  - cellulose - wood
- Na, sodium
- $\text{CaCO}_3$  - calcium carbonate
- Au = gold (Aurum)
- $\text{H}_2\text{CO}_3$  - carbonic acid
- Pb = lead (plumbum)
- NaCl - salt
- Fe = (Ferrous) iron
- come from Romans

