



Colegio Pequeños Bilingües

Fourth Period



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Grado: Sexto

Topic: Alkalinity and pH

SHOW ME WHAT YOU KNOW

Name: _____

Date

Name of day

Month

Day number

Year

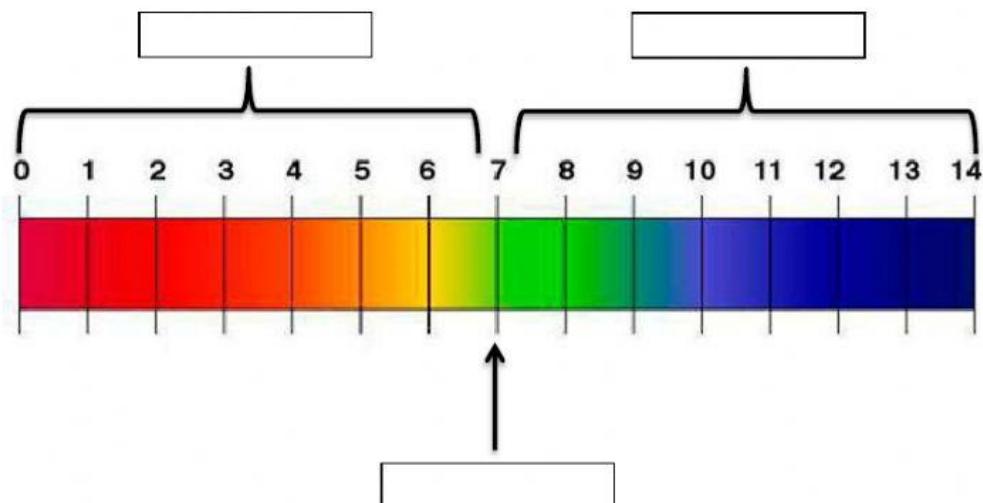
Score:

Goal. The student is able to identify acid and alkaline solutions through indicators using a pH scale.

I. Complete the text with the correct words:

Solutions are classified as [] or basic based on their [] ion concentration relative to pure water. Acidic solutions have a [] H^+ concentration than water, while [] (alkaline) solutions have a [] H^+ concentration. Typically, the hydrogen ion concentration of a [] is expressed in terms of pH. [] is calculated as the [] log of a solution's hydrogen ion concentration.

2. Put the correct name of the pH



3. Calculate the pH of the following solutions:

a. A HCl solution 7.6×10^{-4} M

b. A $\text{Ca}(\text{OH})_2$ solution 0.018 M

4. Calculate the pOH of the following solutions:

a. Solution of HF 6×10^{-3} M

b. Solution of NaOH 5.2×10^{-3} M