



Colegio Pequeños Bilingües

Fourth Period



Qca. Jaznemileth Grillo Garavito

Grado: Sexto

Topic: Alkalinity and pH

SHOW ME WHAT YOU KNOW

Name: _____

Date

Name of day

Month

Day number

Year

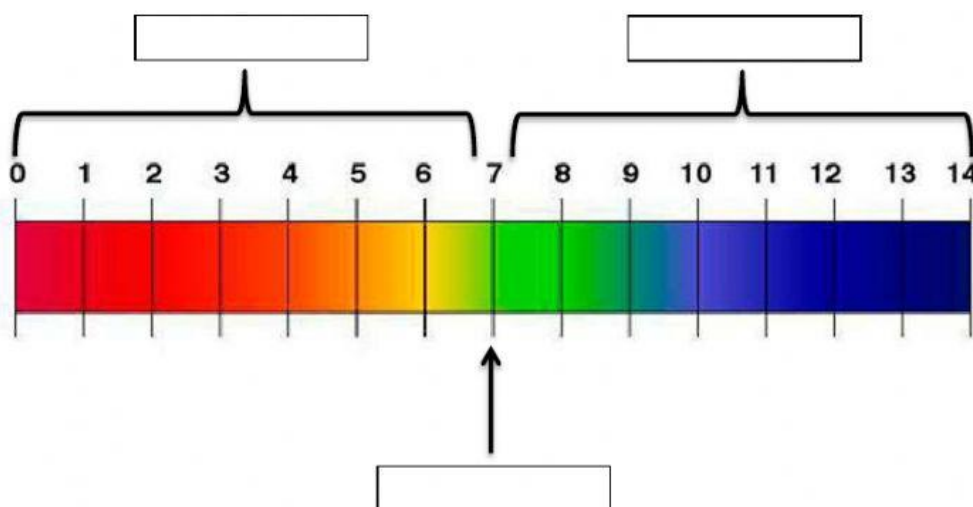
Score:

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

1. 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 $7.6 \times 10^{-4} \text{ M}$

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

4. Calculate the pOH of the following solutions:

a. Solution of HF $6 \times 10^{-3} \text{ M}$

b. Solution of NaOH $5.2 \times 10^{-3} \text{ M}$