

5.1 Acids & bases

Tuesday, April 11, 2017
12:56 PM

ACIDS

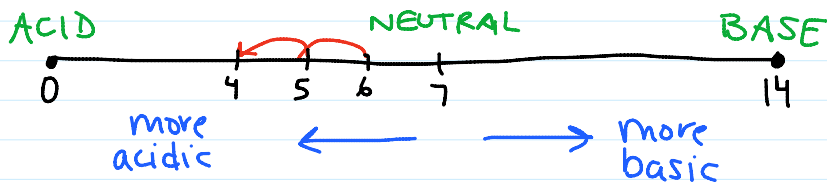
- usually starts with 'H' (hydrogen)
- ends with "...ic acid"
- sour to the taste
- corrosive (burns your skin)
- pH less than 7
- good electrical conductors

BASES

- usually ends with "OH" (hydroxide)
- bitter to the taste
- pH more than 7
- good electrical conductors

pH Scale

- a # scale for measuring how acidic or basic a solution is when dissolved in water.



- one unit change on the pH scale represents a 10^x change in strength of the solution.

ex. pH drops from pH 6 \rightarrow pH 4
 $= 2$ units
 $= 10^2 = 100$ x more acidic
(less basic)

pH Indicators

- chemicals that change colour depending on the pH of the solution

ex. litmus paper \rightarrow red = acidic
 \rightarrow blue = base

ex. universal indicators (fig. 5.6)