Acids, Bases, and pH

- pH scale
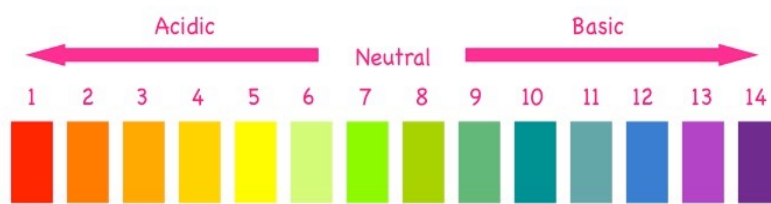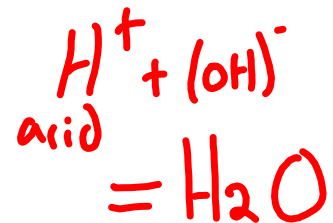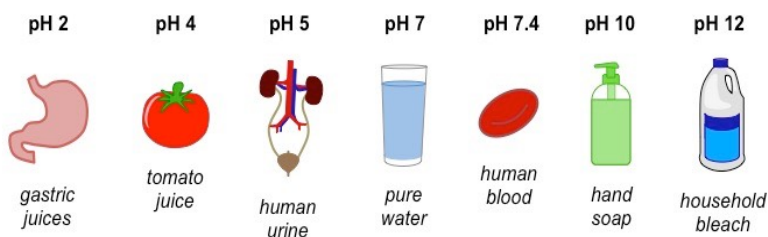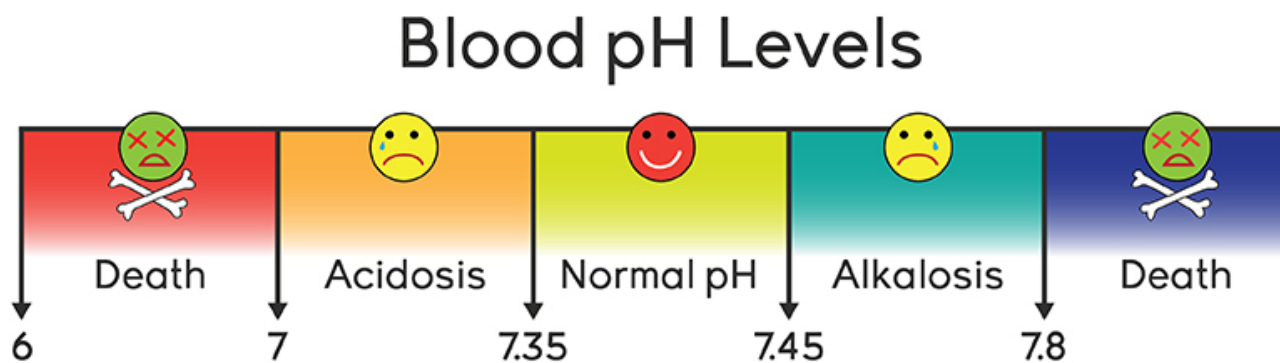

> less than 7 = acidic = more H^+ ions

> 7 = neutral = same H^+ and OH⁻ ions

> greater than 7 = basic = more OH⁻ ions

> pH scale is logarithmic!!!!!!!!! goes by factors of 10

$$H^+ + (OH)^-$$
$$\text{acid} = H_2O$$

The reactions in cells only work in a narrow range of pH

Blood pH Levels

Death	Acidosis	Normal pH	Alkalosis	Death
6	7	7.35	7.45	7.8

Buffers are weak acids or bases that help keep pH within that range.