

ACIDS & BASES

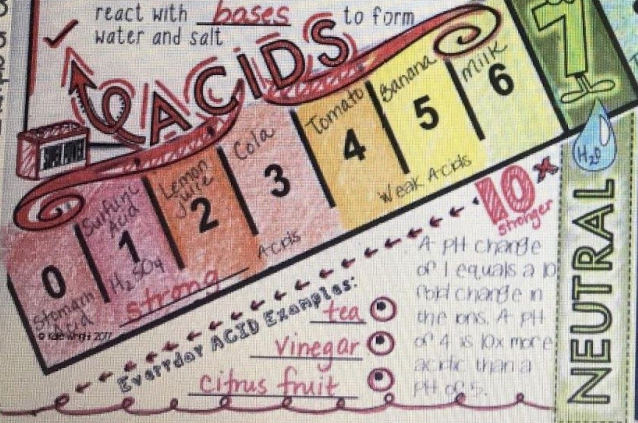
Example of Completed Work

ACIDS are substances that break apart in water to form a hydrogen ion (H^+).

- ✓ have a pH less than 7. Substances farther away from 7 on the scale are stronger acids. (6,5,4,3,2,1)
- ✓ react with metals and carbonates
- ✓ release hydrogen ions (These are created when Hydrogen loses an electron so it has a + charge.)
- ✓ sour taste
- ✓ react with bases to form water and salt



DANGER Do not test by tasting!



NEUTRAL
have a pH of 7 and are not acidic or basic. Equal # of H^+ and OH^- present.

A pH change of 1 equals a 10 fold change in the ions. A pH of 9 is 10x more basic than a pH of 8.

Everyday **BASE** Examples:

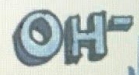
- baking soda
- bleach
- soap

BASES have a pH from 8 to 14 (greater than 7).

BASES are substances that break apart in water to form a hydroxide ion (OH^-)

- ✓ release hydroxide ions (negatively charged ions made of one hydrogen bonded to one oxygen)
- ✓ feel slippery
- ✓ bitter taste
- ✓ react with acids to form water and salt

DANGER Do not test by tasting!



NEUTRAL