pH Scale

pH scale is used as a convenient method for describing the relative amount of acid or base in any aqueous solution (water solution)

pH		strength of H^{1+} or OH^{1-}	example substance
14	**BASIC OH^{1-}**	10000000	
13		1000000	**sodium hydroxide**
12		100000	**ammonia**
11		10000	
10		1000	**anti-acid tablet**
9		100	
8		10	
7	**NEUTRAL**	1	**pure water**
6	**ACIDIC H^{1+}**	10	**milk**
5		100	**5.6 rain water**
4		1000	
3		10000	**vinegar**
2		100000	**lemon juice**
1		1000000	**battery acid**

Acidic ranges from 1 to 6 (up to 6.999...)
Basic ranges from 8 to 14 (up from 7.001...)

A change of one number on the pH scale is in fact a 10 times change in acid or base strength.

Common Acidic Substances are:
- apple juice
- lemon juice
- lemonade
- vinegar
- battery acid

Common Basic Substances are:
- baking soda
- windex
- ammonia cleaner
- Drano
- lye (sodium hydroxide)
- T.S.P. (tri sodium phosphate)

Indicator: a chemical substance that has different colours at different pHs. Can be used to determine pH