



Understanding pH
What's the Solution?
 Acid or Base

Properties

- Chemicals can be grouped by their _____.
- One of these properties is _____, which tells you whether a substance is an _____, a _____, or between an acid and a base called a _____.

What is pH?

- The _____ stands for _____, or power.
- The _____ stands for the chemical symbol for _____.
- The pH of a solution is how _____ or _____ it is.

(another word for base is _____)

Acidos

- Properties of Acids
- Common Acids
 - _____ (oranges, lemons)
 - _____ (yogurt, butter milk)
 - _____ (vinegar)
 - Refer to page 697

Bases

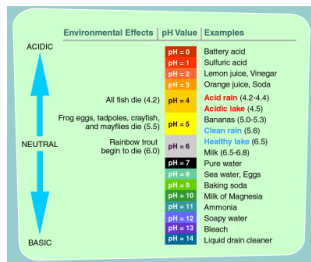
- Properties of Bases
- Common Bases
 - _____ (soap and cleaners.)
 - _____ (antacids and laxatives)

Acids and Bases in Water

- When an acid is poured into water, it gives up _____ (_____) to the water.
Acids produces _____ (_____).
- When a base is poured into water, it up _____ (_____) to the water. gives
Bases produces _____ (_____).

The pH scale

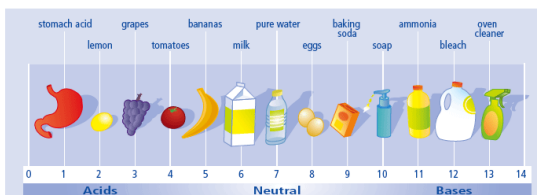
- pH is measured on a scale from _____.
- pH level from _____ is acidic.
- pH level from _____ is basic.
- pH of _____ is



pH Facts

- As acids get _____, _____ is a very _____.
- As bases get _____, _____ is a very _____.

pH Scale



Why is pH important?

- Both humans and aquatic organisms depend on _____.
- The pH of water must be within a range of _____ in order for organisms to survive.

Why is pH important?

- Waters with a pH less than about _____ are _____ for humans to drink and cannot allow most aquatic life to survive.
- Waters that are too basic can also harm humans, plants, and animals. Water with a pH of greater than _____ can dissolve materials such as animal scales and skin.

Section Check

- What gives pickles their distinctive sour taste?
- What type of acid helps you digest your food?
- When dissolved in water, an acid forms what type of ion?
- Is bleach an acid or a base?
- When dissolved in water, a base forms what type of ion?
- A neutral substance has what pH?