Name **Period** **Date**

UNIT	HANDOUT
1	_____

Acids and Bases

Objective: Know the properties/characteristics of acids and bases

Solutions can be acids, bases, or neutral.

Substances that dissolve in _____ can become acids or bases. In order to make an acid or a base a chemical _____ must break apart. When it does, it breaks apart into _____. An ion is a _____ atom. Atoms become charged by losing or gaining an _____. What is the difference between an acid and a base?

An acid is able to _____ a hydrogen ion to another substance.

A base is able to _____ a hydrogen ion from another substance.

* Note: in this case a hydrogen ion is just a _____.

Acids and bases have certain characteristics

There are many ways to determine if a substance is an acid or a base. Here are a few of characteristics that we will use to identify acids and bases.

Acids will…

- Have a _____ taste. (SAFETY NOTE: don't taste acids!)
- React with _____ (ex: limestone rocks)
- React with most _____
- Turn litmus paper _____.
- Have _____ (H^+)

Bases will…

- Have a _____ taste (SAFETY: again, don't actually taste them!)
- Feel _____ to the touch (SAFETY: don't touch them!)
- Turn litmus paper _____.
- Have _____ (OH^-)

You can use these to test different substances to determine if they are an acid or a base. Extreme caution must be used when using touch or taste. **Never touch or taste a chemical unless you have permission to do so!**