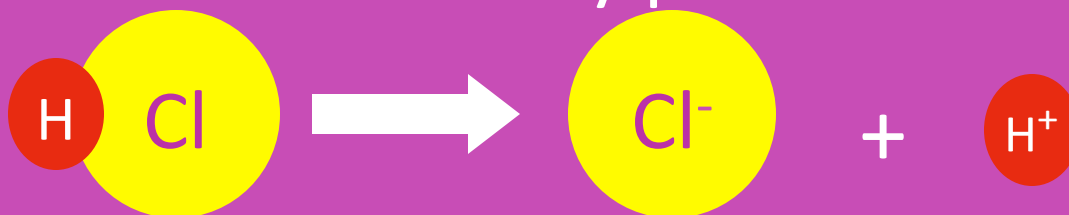


Introduction to Acids and Bases

- Use this Power Point to assist in your completion of the 9.1 Intro sheet!

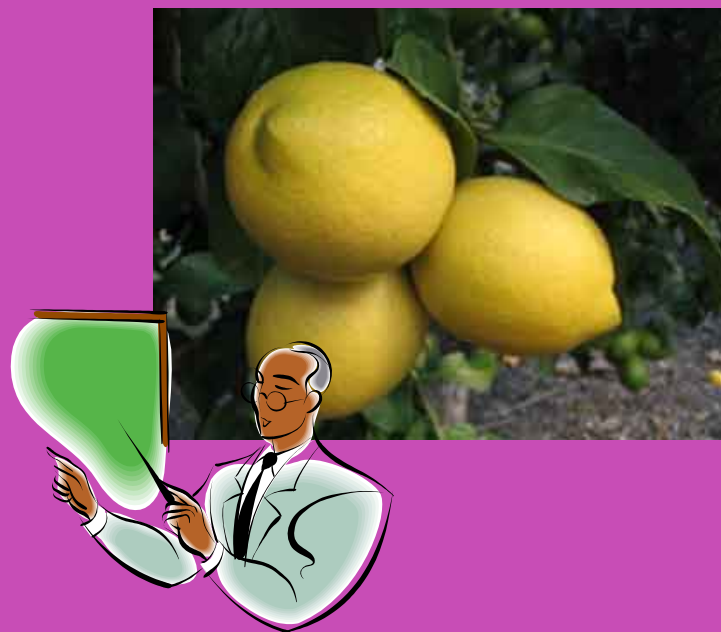
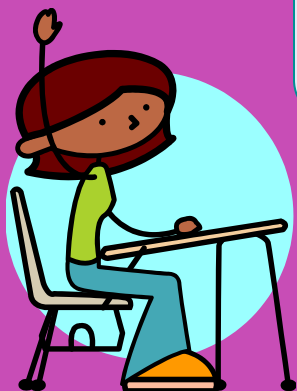
Arrhenius Acids

A substance whose water solution contains H^+ as the only positive ion.



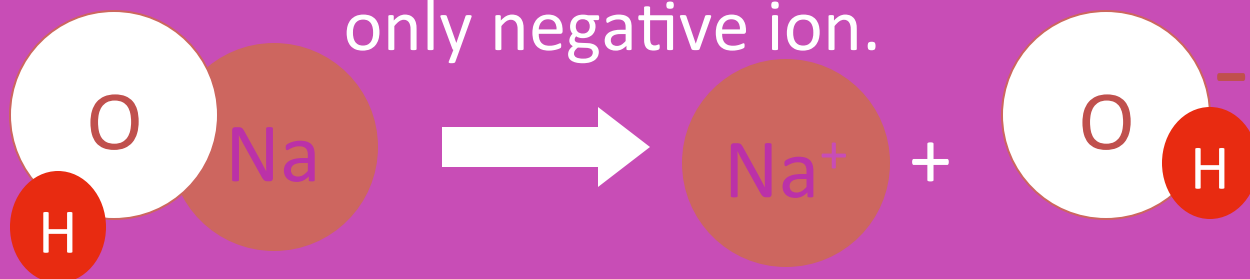
Does that mean that all compounds that contain H are acids?

Nope! CH_4 does not release H^+ in water



Arrhenius Bases

A substance whose water solution contains OH^- as the only negative ion.

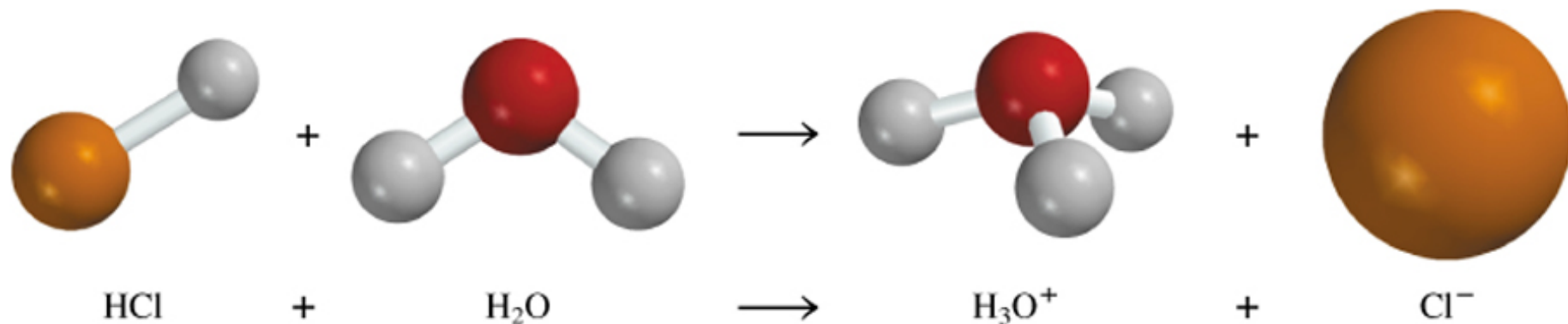


Are all
compounds
containing OH^- 's
bases?

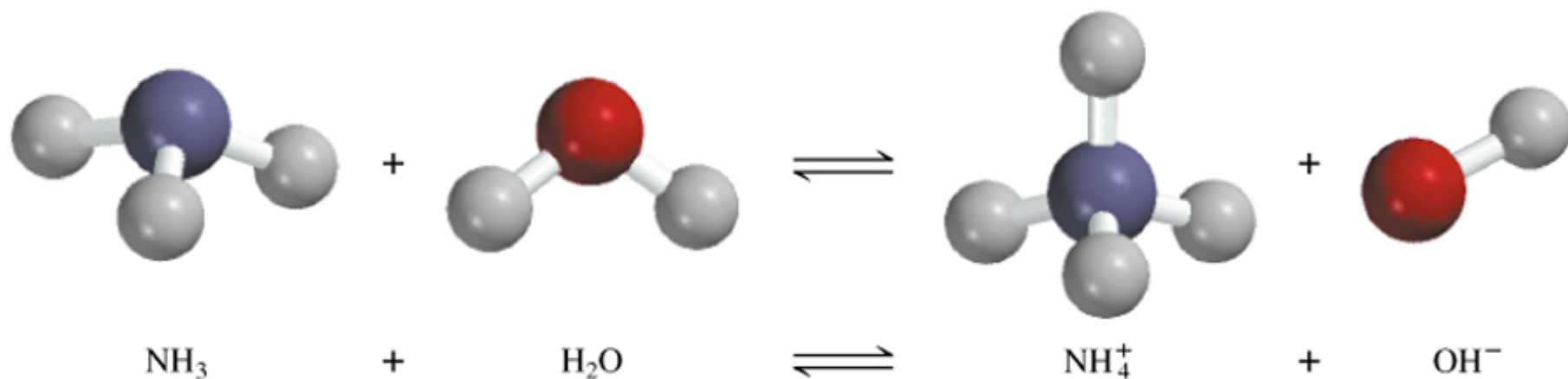
Nope!
 CH_3OH is not
a base.



Arrhenius acid is a substance that produces H^+ (H_3O^+) in water

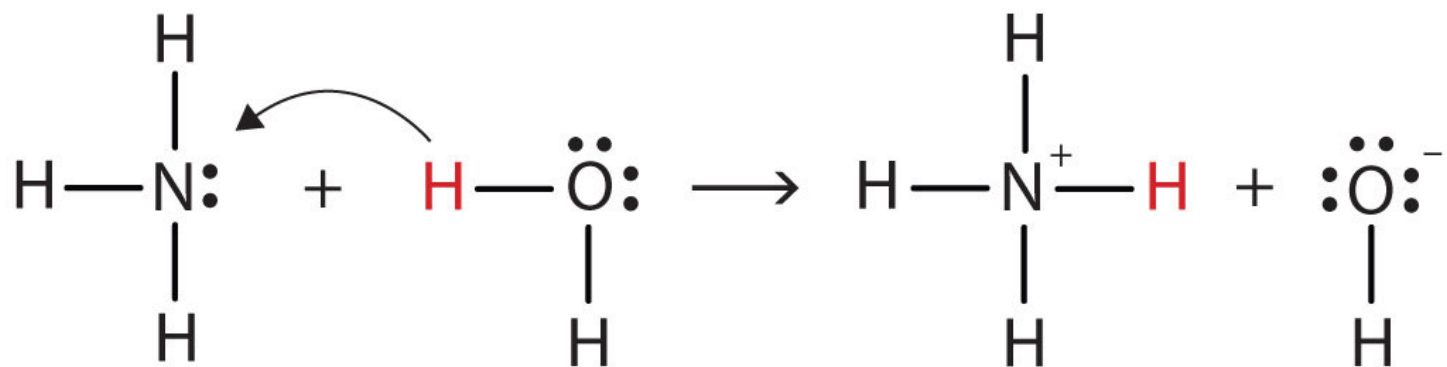


Arrhenius base is a substance that produces OH^- in water



Bronsted Lowry: Alternate Theory

- Bases: H⁺ acceptor
- Acids: H⁺ donor



Hydrogen
ion acceptor:
B-L base

Hydrogen
ion donor:
B-L acid

Acid Naming – Table K

	Anion Ending	Acid Name
No Oxygen →	<i>-ide</i>	<i>hydro-(stem)-ic acid</i>
w/Oxygen ↗	<i>-ate</i>	<i>(stem)-ic acid</i>
	<i>-ite</i>	<i>(stem)-ous acid</i>

An easy way to remember which goes with which...

*“In the cafeteria, you **ATE** something **IC**ky”*

- More questions! Search for answers online!