

Acid Base HW #1

name: _____

Read this first, then do the fill in the blanks.

Svante Arrhenius explained how acids and bases might exist in 1887 with his theory. His idea was that when there is an excess of H^{+1} ions in solution, the solution is an acid. He said that when there is an excess of OH^{-1} ions in solution (which is the opposite), that solution is a base.

Further, he stated that when an acid is combined to a base (in proper ratio) that a special kind of double replacement reaction, called an acid base neutralization reaction occurs, which ALWAYS forms a salt plus water.

Salt, in chemistry, as you remember surely, is any ionic compound (a metallic cation plus a non-metal anion). Water is always a liquid.

Using this table, fill in all the blanks. PLEASE use any color ink but black, so that your answers stand out easier to check over. BALANCE THE EQUATIONS!!! Last Row: Make one up on your own.

Acid _(AQ)	+	Base _(AQ)	→	Salt _(AQ)	+	Water _(L)
H ₃ PO _{4(AQ)}	+	Ca(OH) _{2(AQ)}	→		+	HOH _(L)
H ₂ SO _{3(AQ)}	+	NaOH _(AQ)	→		+	HOH _(L)
	+	KOH _(AQ)	→	KCl _(AQ)	+	HOH _(L)
HC ₂ H ₃ O _{2(AQ)}	+	NaOH _(AQ)	→		+	HOH _(L)
HNO _{3(AQ)}	+	NaOH _(AQ)	→		+	HOH _(L)
H ₂ SO _{4(AQ)}	+	KOH _(AQ)	→		+	HOH _(L)
			→			