

## (168) Chemical Equations

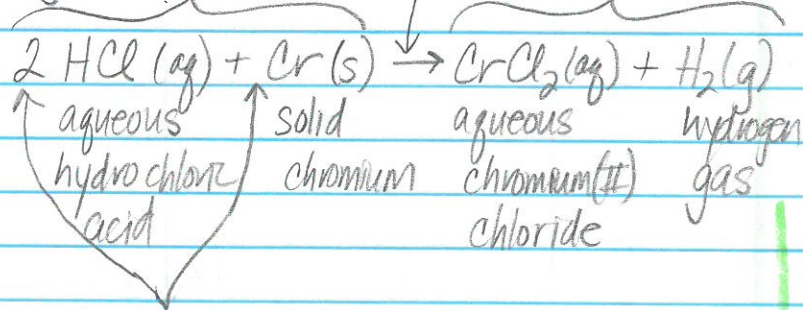
TODAY'S  
DATE

E.Q.: How do chemists keep track of changes in matter?

A chemical equation is a chemical "sentence" that describes change using #s, symbols, and chem formulas

How to denote a chem equation?

e.g., reactants yields products



this rxn requires twice as many HCl molecules as Cr atoms

Interpretation: hydrochloric acid reacts with solid chromium to produce a solution of chromium(II) chloride and bubbles of hydrogen gas

remember (aq) = aqueous sol'n

(s) = solid

(l) = liquid

(g) = gas

→ = yields or produces

used to describe phase of each chemical