

Ch 18 Acid Base

wkst: conj Acid/Base

NAME _____

PERIOD _____

Acids & Bases Ws #3: Identifying Acids & Bases in Equations

Using the definitions of acids and bases, label the reactants as an acid or a base. Using the equation at the bottom of the page, identify the conjugate acid and conjugate base in each equation.

- $\text{HCl} + \text{NaOH} \rightarrow \text{HOH} + \text{NaCl}$
Acid Base Conj Acid Conj Base
- $\text{HNO}_2 + \text{NaOH} \rightarrow \text{HOH} + \text{NaNO}_2$
Acid Base Conj Acid Conj Base
- $\text{H}_2\text{SO}_3 + \text{HCO}_3^{-1} \rightarrow \text{HSO}_3^{-1} + \text{H}_2\text{CO}_3$
Acid Base Conj Base Conj Acid
- $\text{HBr} + \text{Cl}^{-1} \rightarrow \text{Br}^{-1} + \text{HCl}$
Acid Base Conj Base Conj Acid
- $\text{NH}_3 + \text{H}_2\text{O} \rightarrow \text{NH}_4^{+1} + \text{OH}^{-1}$
Base Acid Conj Acid Conj Base
- $\text{NH}_4^{+1} + \text{F}^{-1} \rightarrow \text{NH}_3 + \text{HF}$
Acid Base Conj Base Conj Acid
- $\text{H}_3\text{PO}_4 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{PO}_4^{-1} + \text{H}_3\text{O}^{+1}$
Acid Base Conj Base Conj Acid
- $\text{H}_2\text{S} + \text{KOH} \rightarrow \text{HS}^{-1} + \text{H}_2\text{O} + \text{K}^{+1}$
Acid Base Conj Base Conj Acid
- $\text{OOC}^{\ominus}\text{COO}^{\ominus} + \text{HNO}_3 \rightarrow \text{NO}_3^{-1} + \text{HOOC}^{\ominus}\text{COO}^{\ominus}$
Base Acid Conj Base Conj Acid
- $\text{H}_2\text{SO}_3 + \text{SO}_3^{2-} \rightarrow 2\text{HSO}_3^{-1}$
Acid Base Conj Base or Conj Acid

