

CONCEPT: ACID BASE EQUILIBRIUM

Ultimately, we can use pK_a information to determine the overall direction and favorability of an acid base reaction.

STEPS: 1. Identify the Lewis acid and base

- Many times charges or a known acid will be present (+)_____ (-)_____
- Dissociate ALL spectator ions, these are the cations _____, _____ and _____
- If both compounds are *still neutral*, assign the one with the lowest pK_a as the acid

2. Label the conjugate acid and base

3. Compare the acidity/ pK_a of the Lewis Acid to the _____. Must go from _____ to _____

EXAMPLE: Would the following reactions go to the right or the left? Label ALL species. Draw arrows in the correct direction.

