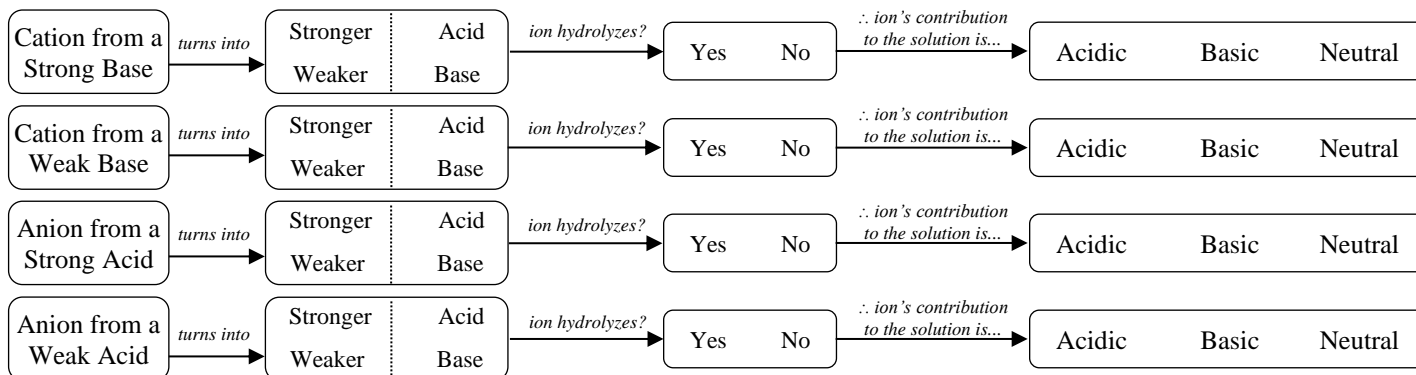


Name: _____

Period: _____

Seat#: _____

Fill out the graphic below by circling or highlighting the correct choice.



Classify the following salts as acidic, basic, or neutral. Remember: $K_w = K_a \times K_b$

Salt	Acidic, Basic, or Neutral	Salt	Acidic, Basic, or Neutral
1) Ba(ClO ₄) ₂		12) Na ₂ CO ₃	
2) NH ₄ NO ₂ K _a for NH ₄ ⁺ = 5.6 x 10 ⁻¹⁰ K _b for NO ₂ ⁻ = 2.2 x 10 ⁻¹¹		13) CsOH	
3) AgOH		14) HClO ₄	
4) H ₂ CO ₃		15) NH ₄ C ₂ H ₃ O ₂ K _a for NH ₄ ⁺ = 5.6 x 10 ⁻¹⁰ K _b for C ₂ H ₃ O ₂ ⁻ = 5.6 x 10 ⁻¹⁰	
5) NH ₄ Cl		16) NaClO	
6) Ca(NO ₃) ₂		17) KClO ₄	
7) NaNO ₂		18) NH ₄ Br	
8) Zn(NO ₃) ₂		19) NH ₄ F K _a for NH ₄ ⁺ = 5.6 x 10 ⁻¹⁰ K _a for HF = 6.8 x 10 ⁻⁴	
9) K ₂ CO ₃		20) KC ₂ H ₃ O ₂	
10) Fe(ClO ₄) ₂		21) NaF	
11) NH ₄ C ₆ H ₆ COO K _a for NH ₄ ⁺ = 5.6 x 10 ⁻¹⁰ K _a for C ₆ H ₆ COOH = 6.5 x 10 ⁻⁵		22) CH ₃ NH ₃ NO ₂ K _b for CH ₃ NH ₂ = 4.4 x 10 ⁻⁴ K _b for NO ₂ ⁻ = 2.2 x 10 ⁻¹¹	

