

Relative Acid/Base Strengths -- in Conjugate Pairs

	<u>Acid</u>	<u>Base</u>	
	HClO ₄	ClO ₄ ⁻	} too weak (to act as bases in aqueous sol'n)
	H ₂ SO ₄	HSO ₄ ⁻	
Strong	HI	I ⁻	
Acids	HBr	Br ⁻	
	HCl	Cl ⁻	
	HNO ₃	NO ₃ ⁻	
	H ₃ O ⁺	H ₂ O	
	H ₂ SO ₃	HSO ₃ ⁻	
	HSO ₄ ⁻	SO ₄ ⁻²	Weak
	H ₃ PO ₄	H ₂ PO ₄ ⁻	Bases
	HNO ₂	NO ₂ ⁻	
	HF	F ⁻	
	HCOOH	HCOO ⁻	
	CH ₃ COOH	CH ₃ COO ⁻	
	Al(H ₂ O) ₆ ⁺³	Al(H ₂ O) ₅ (OH) ⁺²	
	H ₂ CO ₃	HCO ₃ ⁻	
	H ₂ S	HS ⁻	
	H ₂ PO ₄ ⁻	HPO ₄ ⁻²	
Weak	NH ₄ ⁺	NH ₃	
Acids	HCO ₃ ⁻	CO ₃ ⁻²	
	CH ₃ NH ₃ ⁺	CH ₃ NH ₂	
	HPO ₄ ⁻²	PO ₄ ⁻³	
	H ₂ O	OH ⁻	
	HS ⁻	S ⁻²	} Strong Bases
too weak (to act as acids in aqueous sol'n)	NH ₃	NH ₂ ⁻	
	OH ⁻	O ⁻²	