Naming Conjugate Acids and Conjugate Bases

A **conjugate acid** is formed when a base accepts a proton (H+).

It will always have one more H+ than the base.

A **conjugate base** is formed when an acid donates a proton (H⁺).

It will always have one fewer H+ than the acid.



Instructions: For each acid or base provided, select the correct conjugate acid or conjugate base from the four options given.

- 1. The conjugate base of HCl is:
- a) H₂Cl
- b) CI-
- c) HCl₂
- D) H₂O

- 2. The conjugate acid of OH- is:
- a) O-2
- b) H₂O
- c) H
- D) HO-

- 3. The conjugate base of H₂SO₄ is:
- a) H_3SO_4
- b) SO₄⁻²
- c) HSO₄
- D) H₂O

- 4. The conjugate acid of NH₃ is:
- a) NH_2
- b) NH₄ c) NH
- D) N-3

- 5. The conjugate base of HCO3 is:
- a) H_2CO_3
- b) CO₃
- c) H₂CO₄
- D) CO_3

- 6. The conjugate acid of F- is:
- a) F₂
- b) H₂O
- c) HF
- D) FH-