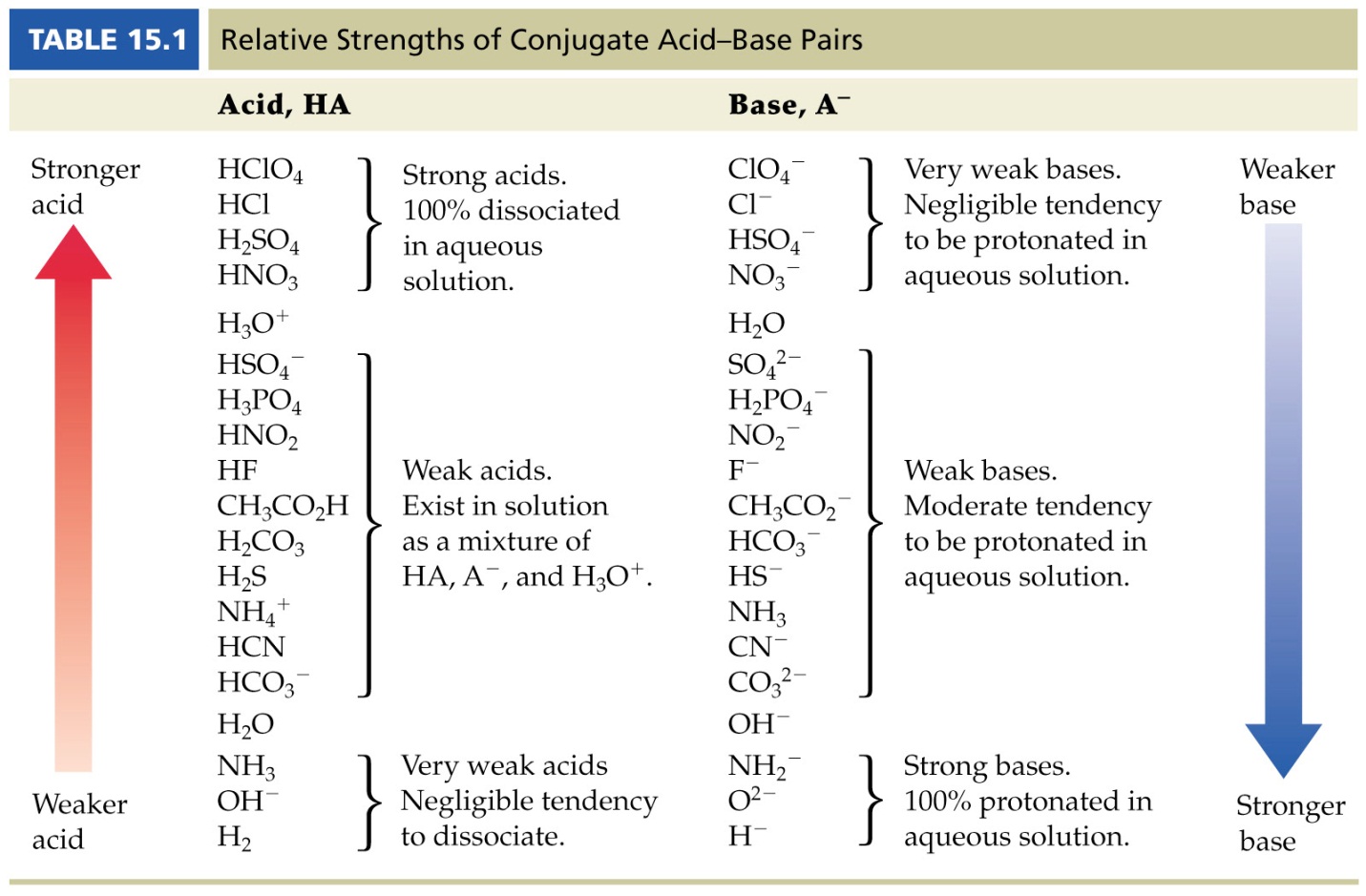
**Direction of Acid – Base reactions**

**I**

**Using the charges of the solutions and table 15.1:**

1. **Identify the acids and bases.**
2. **Give the direction of the reaction.**

**HCO3- (aq) + SO42- (aq) HSO4(aq) - + CO3(aq) 2-**



**Using the charges we know that HCO3- and HSO4- are the acids and SO42- and CO32- are the bases.**

**The given table indicates that HSO4- is the stronger acid and CO32- is the stronger base.**

**Therefore, CO32- gets the proton and the reaction proceeds from Right to left.**

**HCO3- (aq) + SO42- (aq) HSO4- (aq) + CO32-(aq)**

**Weaker acid Weaker base Stronger acid Stronger base**