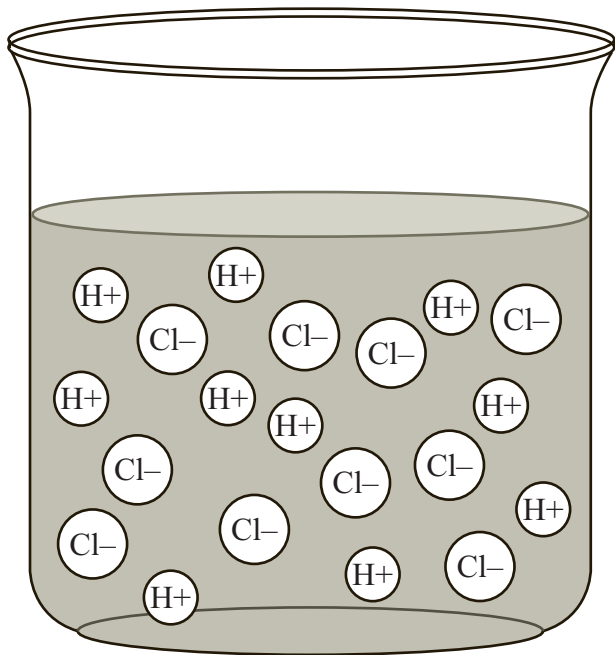


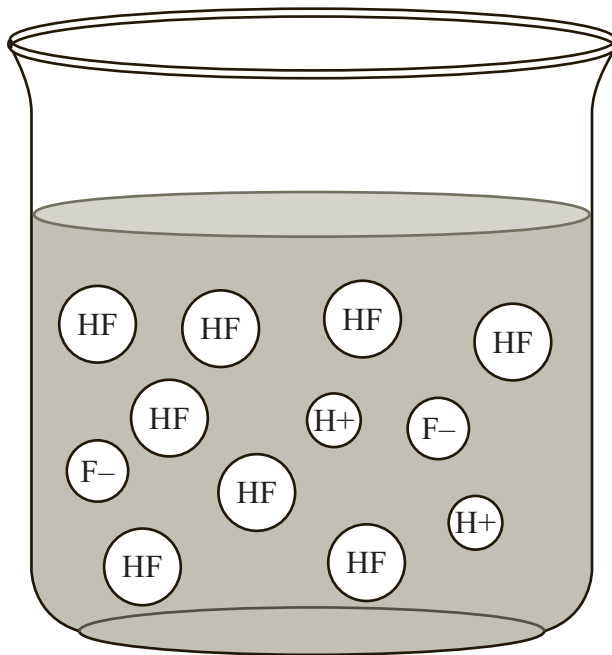
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The diagrams below show a 0.1 M aqueous solution of HCl and a 0.1 M aqueous solution of HF.

0.1 M  
HCl



0.1 M  
HF



- Identify HCl and HF as acids or bases. Explain your answer.
- The pH of the 0.1 M HCl solution is expected to be lower than the pH of the 0.1 M HF solution. Explain why, based on the diagrams of the solutions and the definition of pH.