

Acids and Bases

Directions:

Insert and install your Interactions: Foundations CD.

- Click the "Contents" button.
- Open the *Chemistry Level of Organization* file.
- Click on *Animations*.
- Work through *Acids and Bases*.



Acids and Bases

1. Explain what makes a solution *acidic*.

hydrogen ion - _____



2. Explain what makes a solution *basic* or *alkaline*.

hydroxide ion - _____



The pH Scale

3. a. Explain the pH scale.

acidic range - _____

neutral - _____

alkaline range - _____

- b. Describe the pH range of body fluids as examined by the CD.

Strong Acids

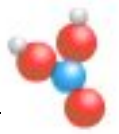
4. What are the functions of *hydrochloric acid* (a strong acid) in the body?

proteins - _____

bacteria - _____



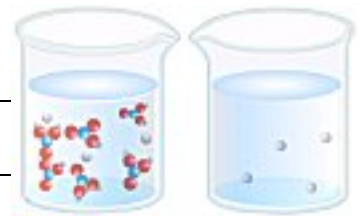
Weak Acids



5. a. What is the function of *carbonic acid* (a weak acid) in the body? _____

Buffers

6. a. Describe a system buffered with carbonic acid. _____



b. Describe the protective value of buffers. _____
