

## 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

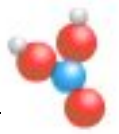
4. What are the functions of *hydrochloric acid* (a strong acid) in the body?

proteins - \_\_\_\_\_

bacteria - \_\_\_\_\_



## Weak Acids



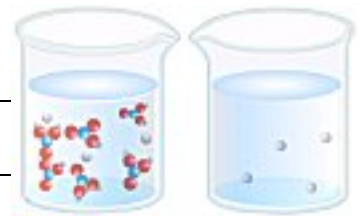
5. a. What is the function of *carbonic acid* (a weak acid) in the body? \_\_\_\_\_

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## Buffers

6. a. Describe a system buffered with carbonic acid. \_\_\_\_\_

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b. Describe the protective value of buffers. \_\_\_\_\_

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