

Chapter 2 The Chemistry of Life**Section Review 2-2****Reviewing Key Concepts**

Matching Match each term with its appropriate description. Write the letter of the correct term on the lines provided. A term may be used more than once.

- | | | |
|-------------|---|----------|
| a. polarity | b. acidic | c. basic |
| _____ | 1. unequal sharing of electrons | |
| _____ | 2. lemon juice, pH 1.5 | |
| _____ | 3. lower concentrations of H^+ ions than pure water | |
| _____ | 4. ammonia, pH 11.5 | |
| _____ | 5. a slight negative charge at one end of a molecule, a slight positive charge at the other end | |
| _____ | 6. pH values that are below 7 | |
| _____ | 7. alkaline solutions | |

Short Answer On the lines provided, answer the following questions.

8. What causes polarity in a water molecule?
- _____
- _____
9. What determines whether a solution is acidic or basic?
- _____
- _____
10. What is the relationship between cohesion and capillary action?
- _____
- _____
11. Name two types of mixtures and describe how they are different.
- _____
- _____

Reviewing Key Skills

12. **Applying Concepts** What is the relationship between a base and a basic solution?
- _____
- _____
13. **Comparing and Contrasting** Describe how acidic solutions differ from pure water.
- _____
- _____
14. **Applying Concepts** What are buffers and why are they important to cells?
- _____
- _____