

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?

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