Separation Techniques Lab Review

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Understanding Mixtures and Solutions

Name: _____ Date: _____

Answer the following questions based on what you learned in the Separation Techniques Lab.

1. What is the purpose of filtration in separating mixtures?

- **A.** To remove liquid only
- **B.** To separate solid particles from liquids
- **C.** To combine different substances

2. Evaporation is a technique that removes ___, leaving solid particles behind.

3. What are the four separation techniques we learned about? List them and briefly describe each one.

4. Magnetism can be used to separate all types of mixtures.

◯ True ◯ False

5. Which method would you use to separate sand from iron filings?

- **A.** Filtration
- **B.** Magnetism
- **C.** Evaporation

6. Manual separation involves ___ the components of a mixture by hand.

7. Why is it important for scientists to separate mixtures? Provide two reasons.

8. Evaporation can be used to separate salt from water.

◯ True ◯ False

9. What is one way a scientist might choose the right separation technique for a mixture?

- **A.** By guessing
- **B.** Based on the materials in the mixture
- **C.** By asking a friend

10. Reflect on Proverbs 2:4-5. How does seeking knowledge in science compare to seeking understanding in God's word?

Answer Key

1. To separate solid particles from liquids 2. liquid 3. Filtration, Evaporation, Magnetism, Manual separation 4. False 5. Magnetism 6. picking apart 7. To understand components and conduct accurate experiments 8. True 9. Based on the materials in the mixture 10. Both require effort for understanding and truth.