

Separation of a Mixture Pre-Lab Assignment

NAME: _____

1. Of the methods listed for the separation of the components found in a mixture, which one would you use to remove mud from water?
2. Can any of the methods listed in the Background section be used to separate the elements bonded together in compounds? Explain.
3. What separation technique is used when making a cup of tea by soaking a tea bag in hot water?
4. Describe which separation technique is used to make fresh water out of sea water. Explain how you think this is done?
5. From an 11.562-g sample containing sodium chloride, iron filings, and sand, the following were recovered: 3.642 g sodium chloride, 1.564 g iron filings, and 5.921 g sand. Calculate the percentage of each substance in the sample and the total percentage of sample recovered. If your calculations show less than 100% recovery, what could account for the difference? Show all your work.