

Separating a Mixture

Research Question: How can I separate a mixture into its original parts?

Intro: When separating a mixture there are many methods we can use. Common methods include evaporation, sieving, filtration, magnets, hand tools, and floating. A mixture is made of two or more different elements or compounds.

Procedure: We decided to separate the mixture in various ways. First, we used the included tweezers to pull the pebbles out of the mixture. Next we used the magnet to pull the iron particles out of the mixture. Then we placed the sand and salt mixture in the coffee filter over the beaker. Next we poured water over the mixture in the coffee filter. Then the salt was in the water so we then boiled off the water and were left with salt on the pan.

Results: We were able to separate the mixture into its individual components through the use of the magnet, tweezers, filter, and boiling water.

Conclusion: We can separate a mixture into its original parts (sand, iron, rocks, and salt) by using a magnet on the iron, tweezers on the rocks, a filter for the sand and boiling off water for the salt. We experienced no errors in our procedure for this lab.