

Colton Short
Mixture Separation lab

Research Question:

How can you separate a mixture into its original components?

Introduction:

We are attempting to separate a Heterogeneous Mixture of Sand, Iron Fillings, Rocks, and Salt through physical means.

Procedures:

We start by removing the Rocks from the mixture by hand. Then we used the magnet to remove the Iron Fillings. Next, we used the filter over a beaker to strain out the salt from the sand. Then we poured the salt water into a pot and boiled it.

Observations:

All of the components were separated. The rocks were picked out by hand, the iron fillings removed via magnetism, the sand removed by the filter, and the salt removed from the water after boiled off.

Conclusion:

It is possible to separate the components of a mixture through purely physical means.