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Separation of a Mixture

Research question

How can I separate a mixture into its original parts?

Introduction

Mixtures are made of different substances that can be separated.

Procedures

First, we took out the rocks with the spatula. Next, we separated the iron from the mixture by putting a magnet into the mixture and stirring it. After that we separated the sand from the mixture by putting a filter over a beaker then we put the mixture on top of that filter and poured water into that beaker. We were left with sand on the top and water mixed with salt in the beaker. Lastly, we poured the beaker full of salt water into a pan and turned on the heat. After a few minutes the water evaporated, and we were left with salt in the pan.

Data/Observations

We separated colored rocks from the mixture. The iron looked like spikes on the magnet. When we strained the mixture with water, the water looked murky and dirty. We poured that water into a pot and heated it up. After a minute the water looked like bubbles sticking to the pan and after a few more minutes all the water was gone and left in the pan was the salt. The salt looked like a powdery white substance stuck to the bottom of the pan.

Conclusion

We were able to successfully separate the mixture by using different filtrations tools. We used evaporation, a filter, magnet, and a spatula