

Mod 2 Lab Report: Separation of Mixtures

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Separation of Mixtures

Research Question

How can I separate a mixture into its original parts?

Introduction

There are three major types of substances: elements, compounds and mixtures. An element is a pure chemical substance. Compounds are pure chemical substances made of two or more elements. Mixtures are made of two or more different elements or compounds.

Procedures

1. Use tweezers to get large materials out (e.g. rocks).
2. Use a sieve to separate small and large particles.
3. You use the magnets to get the iron fillings out (use the north side).
4. Pour the salt and sand in flask full of H₂O.
5. Filter your salt water into other H₂O using coffee filter (will have sand stuck in coffee filter).
6. Ball salt water to evaporate water and leave salt.

Results

1. We got the rocks out with tweezers.
2. Iron fillings were removed with the magnet.
3. We didn't have a sieve.
4. The filtration failed because we messed up this step.

Conclusion

The steps we were able to get through we were able to separate the bigger items from the mixtures.