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Chemistry

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Separating a Mixture

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

Intro: A mixture is not a pure chemical substance. It is made of two or more chemically pure substances that physically combine. The substance within a mixture can be physically separated.

Procedure: First, take the tweezers and pull the rocks out of the mixture. Then, put paper around the magnet and put the magnet into the mixture to pull out the iron. Next, put the salt and the sand in the coffee filter and pour water over it into the beaker. Finally take the salt water and put it in a pot on a hot plate. Boil the water out and you will have the salt separated.

Observations: We removed the rocks and the iron and the sand, and then boiled the salt.

Everything separated correctly!

Conclusion: Experiment was successful!

Vocab:

Compound- Substance that can be decomposed into elements by chemical means.

Chemical reaction- a process in which one or more substances, the reactants, are converted to one or more different substances, the products.

Ionic compound- A compound formed by ions.

Covalent compound- A compound formed by atoms that share electrons

Electrolysis- Chemical change, especially decomposition, produced in an electrolyte by an electric current.

Mixture- A substance that contains different compounds and/or elements

Solution- The result of one or more solutes being dissolved in a solvent.



