

## LAB: Separating Mixtures

Name: \_\_\_\_\_  
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### Introduction:

The objective of the lab is to prove that mixtures can be separated by the individual substances physical properties. **Mixtures** contain two or more pure substances (elements and/or compounds) physically combined. Two types of mixtures are **heterogeneous mixtures** (uneven distribution) and **homogeneous mixtures** (even distribution). Examples of physical properties that could be used to separate substances in a mixture include but are not limited to magnetism, **solubility** (the ability to dissolve in a specific liquid), size, and boiling point. When a substance is dissolved in water it is called an **aqueous** solution and is a homogeneous mixture. In this lab we will be separating a heterogeneous mixture of sand, salt, and iron filings. If a mixture can be separated by the individual substances physical properties, then the mass of the individual substances before mixed should equal the mass of the individual substances after separated.

### Procedures:

- 1.