

Name: _____

Date: _____

Lab: Separating a Mixture

IB Chemistry 11

Objective: To design and carry out a plan to separate the components of a mixture.

Safety: Splash Goggles / Safety Glasses

Procedure:

- Your lab partner's name(s): _____
- You will be given a mixture of Kool-Aid powder, water, sand, and iron filings.
- Mass your sample and record the mass here: _____ g
- With your group, design a plan to separate all 4 components of this mixture. You will also be expected to measure the mass of ALL components after separation.
- Available equipment: beaker, magnet, filter paper, stirring rod, ring stand, iron ring, and funnel.
- See your teacher to get your plan approved and get your teacher's initials here: _____
- Write a **DETAILED**, step-by-step procedure on your lab credit sheet. Your procedure should include set-up and clean-up.
- Carry out your procedure to separate your mixture, massing each component as it is separated.
- Create a data table for your measurements and neatly copy it onto your lab credit sheet.
- Calculate the % composition of each component in your mixture, neatly showing all calculations on your lab credit sheet.
- Add up the % values for each component. Does the total equal 100%? _____
- Calculate your % error, showing your calculation on your lab credit sheet.
- Complete your lab credit sheet.

