



Holy Cross College

Year 7 Science – Separating Mixtures

Salt Sand and Iron

Name: _____

Separating components of mixtures is a valuable process that we use every day in order to access the materials we need from the materials we don't. Your task is to investigate how we can separate iron filings and salt from our sand using a combination of magnetic separation, filtration, and evaporation.

Part A: Planning (1 Lesson)

In groups of 2 or 3:

- Analyse the mixture we wish to separate
- Decide on the process you are going to use to separate the sand, salt, and iron filings
- Write your process as a METHOD
- Show your method to your teacher
- Your method needs to include a list of equipment and a diagram of your setup.
- Record a video of your group telling people what you plan on doing and how you will do it.

Part B: Conducting (1 Lesson)

- Conduct your separation
- Record your process to include in your video report

Part C: Results and Analysis

- As a group develop a video report on your investigation
- Your video needs to show your final products and discuss how successful your method was.

Time frame:

- 1 class lessons to plan
- 1 class lesson to conduct.
- 1 class lesson to complete the video report

Due Date: Monday 19th August 2019