

EXPERIMENT #5SEPARATION OF A MIXTURE OF SALT AND SAND  
REPORT FORM

Unknown number ..... \_\_\_\_\_

Mass of empty beaker ..... \_\_\_\_\_

Mass of beaker and sample ..... \_\_\_\_\_

Mass of sample..... \_\_\_\_\_

Mass of filter paper ..... \_\_\_\_\_

Mass of filter paper and sand ..... \_\_\_\_\_

Mass of sand..... \_\_\_\_\_

Percent of sand in mixture..... \_\_\_\_\_

*(Show calculations below):*

Mass of evaporating dish ..... \_\_\_\_\_

Mass of evaporating dish and salt ..... \_\_\_\_\_

Mass of salt obtained..... \_\_\_\_\_

Percent of salt in mixture (*calculated*) ..... \_\_\_\_\_*(Show calculations below):*

Total mass of mixture recovered..... \_\_\_\_\_

Percent Recovery..... \_\_\_\_\_

### Questions:

1. What is the purpose of the gentle heating of the mixture in the first part of the experiment?
2. Explain how the following actions would affect your final results (percent composition) for your unknown sample. Be as specific as possible in your answers.
  - a) The unknown sample is not dissolved properly in water in the first step of the experiment.
  - b) The sand and filter paper are not dried completely.
3. What physical property difference between the two substances are used to separate each of the following:
  - a) Sand and salt
  - b) Salt and water