



NAME: _____

DATE: _____

Composition of a Contaminated Mixture

Your Task

Determine the amounts of sodium chloride and potassium chlorate in a mixed sample.

Background

In this lab, you will be given a mixture of sodium chloride and potassium chlorate.

Potassium chlorate decomposes into potassium chloride and oxygen gas at $150 - 300^{\circ}\text{C}$. For safety purposes, it is important not to heat the sample much above this. More importantly, you must be very careful when heating the mixture because they become explosive when contaminated with organic material. Keep everything clean.

Procedure

1. You will need to determine the mass of the empty evaporating dish. To do this, heat it up three times, and massing it until the mass does not change. Make sure the dish has cooled to room temperature before weighing it. Use a beaker tong (shown how by the instructor) to transfer the dish, not your hand.
2. Mass amount approximately 4 grams of the mixture.

Write down the rest of the procedure and have it approved by the teacher. Include how you will calculate the amounts of each substance in the mixture.