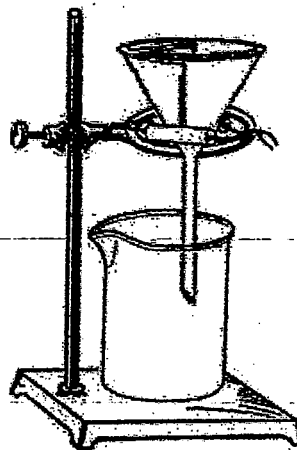


Making Lead

Purpose: to observe the difference between a physical and chemical change.

Materials:

- 160 ml of Distilled H₂O
- KI (Potassium iodide)
- Pb(NO₃)₂ (Lead nitrate)
- Ring Stand
- Ring clamp
- Clay triangle
- Funnel
- Filter paper circle (fold to make a cone)
- 2 - 250 ml beakers
- 100 ml graduated cylinder
- Stirring Rod
- Weighing scale
- Scupula



Procedure:

1. Put on personal protective equipment (PPE: gloves, goggles & lab coat)
2. Grab 2 - 250 ml clean beakers.
 - a. If not clean, stop and wash beakers in sink
3. Label beakers with masking tape. Label one beaker with KI and one beaker Pb(NO₃)₂
4. Fill both beakers with 80 ml of distilled water using 100 ml graduated cylinders
5. Measure out 0.5g of Pb(NO₃)₂ (Lead nitrate)
6. Carefully pour Pb(NO₃)₂ into labelled beaker, making sure not to spill any chemical
7. Measure out 1.1g of KI (Potassium iodide)
8. Carefully pour KI into labelled beaker, making sure not to spill any chemical
9. Pour one beaker into the other beaker, cautiously making sure not to spill, stir lightly with wooden stir stick
10. Observe for 1 minute
11. Set up ring stand, as shown in image above & filter solution
12. Observe filtrate
13. Place filter in baggie labelled Pb⁺² waste
14. Pour waste liquid down main sink drain at back of classroom with running water
15. Leave water running for 1 minute to dilute & flush liquid down drains