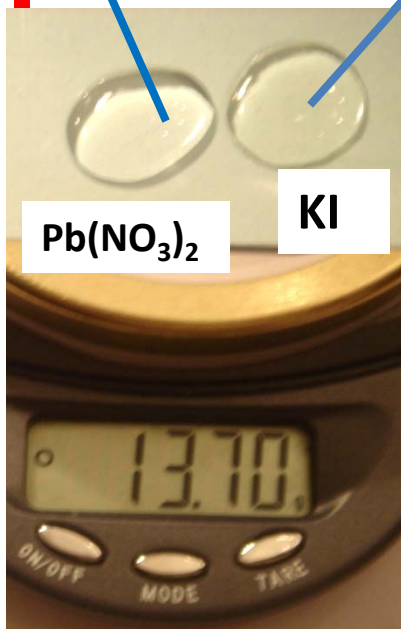




Applying the Law of Mass Conservation to the Double Replacement (Metathesis) reaction of 5 drops each :  $\text{Pb}(\text{NO}_3)_{2\text{aq}}$  &  $\text{KI}_{\text{aq}}$  on a Plastic Surface.

An equal amount of matter exists before and after the experiment

ANTOINE LAVOISIER (father of modern chemistry)  
1789



- \* On a plastic transparent sheet 5x5 cm. apply 5 drops of a solution of  $\text{Pb}(\text{NO}_3)_2$  & very carefully apply, adjacently 5 Drops of the reactant solution KI.
- \* Record the mass of the reactants and the plastic sheet & their supporting device for easy handling.
- \* With a thin wire, mix the drops of the reactants and observe the instantaneous, copious, yellow precipitation of the insoluble product  $\text{PbI}_2$ .
- \* Record the mass of the product after the reaction. Observe that it is identical with the initial mass.

