Pre-Lab Water of Hydration

Objective: The formula of the hydrate of copper (II) sulfate will be determined using gravimetric analysis.

Water of Hydration



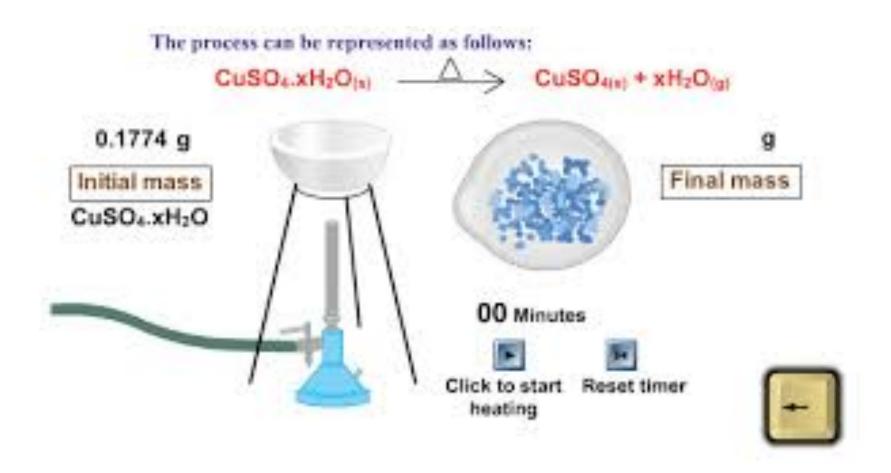
Magnesium Sulfate Hydrate

Gravimetric Analysis

Analysis based on measurement of mass.



Water of Hydration



Calculations

- Objective what is "n"
- CuSO₄*nH₂O

Calculations

• Using lab data:

Mass of hydrate

Mass anhydrate (what is left after heating)

Mass water

Calculations

- Convert mass of anhydrate to moles
- Convert mass of water to moles
- Divide moles of water by moles of anhydrate
- Resulting number is "n"
- For more help review homework worksheet
 "Determining the Formula of a Hydrate"