

## Properties of Hydrates Data Sheet

**Student Name:**

**Partner Name:****Date**

**Instructor's Initials**

## Grade

## Part One

Mass of Crucible =

## Part Two

Name of Compound =

Initial Color

### Color after Heating

### Solution Color

Initial Sample Mass

Final Mass of Sample +  
Crucible

Final Sample Mass

Calculate the %Mass Lost. Show your work.

## Observations

Properties of Hydrates Data Sheet

Name of Compound =		
Initial Color	Color after Heating	Solution Color
Initial Sample Mass	Final Mass of Sample + Crucible	Final Sample Mass
Calculate the %Mass Lost. Show your work.		
Observations		
Name of Compound =		
Initial Color	Color after Heating	Solution Color
Initial Sample Mass	Final Mass of Sample + Crucible	Final Sample Mass
Calculate the %Mass Lost. Show your work.		
Observations		

Properties of Hydrates Data Sheet

Part Three		
Mass of Crucible =		
Name of Compound =		
Initial Color	Color after Heating	Solution Color
Initial Sample Mass	Final Mass of Sample + Crucible	Final Sample Mass
Calculate the %Mass Lost. Show your work.		
Observations		
Moles of Anhydrous Compound	Moles of Water Lost	Ratio of Water Moles to Compound Moles
Show your calculation of the moles of anhydrous ionic compound.		

Properties of Hydrates Data Sheet

Show your calculation of the moles of water.

Show your calculation of the ratio between water moles and compound moles. Write the complete molecular formula for the hydrate.

Comment on any sources of error in your technique. How would they effect your results. How would you prevent them in the future?