

Name: _____

Section: _____

Report Form – Hydrates

Describe the odor and appearance of the liquid collected by heating the copper (II) sulfate.

Report your observations when your liquid and deionized water are tested with cobalt chloride paper and when your liquid and deionized water are reacted with the white residue.

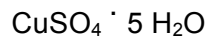
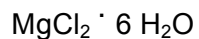
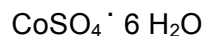
What do your observations tell you about the nature of the liquid collected by heating the hydrated copper (II) sulfate? Why?

Determination of Percent Water in a Hydrate

Unknown number	
Mass, crucible + lid + hydrate sample	
Mass, crucible + lid	
Mass, hydrate sample*	
Mass, crucible + lid + anhydrous product (1st heating)	
Mass, crucible + lid + anhydrous product (2nd heating)	
Mass, crucible + lid + product (3rd heating if necessary)	
Mass, water lost*	
Percent water in hydrate*	

Show the calculations for each of the entries in the Data Table marked with * on the calculations page.

1) Name the following hydrates:



2) Write formulas for the following hydrates:

Sodium dihydrogenphosphate nonahydrate

Potassium chromate tetrahydrate

Lead (II) acetate trihydrate

Calculations

Show the calculations for each of the entries in the Data Table marked with * below.