VALENCIACOLLEGE

Experiment 2: Empirical Formulas

Version 3

Name: _____ **Date:** _____

Lab Partner: _____ **Section:** _____

Table 1. Empirical formula of the Product of the Reaction of Mg with O_2

	Trial 1*	Trial 2
mass of lid		
mass of crucible + lid		
mass of crucible + lid + Mg		
mass of Mg		
moles of Mg		
mass of burned Mg product + lid + crucible		
1st mass recording after heating		
2nd mass recording after heating		
3rd mass recording after heating (if needed)		
mass of oxygen		
moles of oxygen		
formula of the magnesium oxide		

*Show calculations for trial 1.

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Table 2. Empirical Formula of a Copper Hydrate

	Trial 1*	Trial 2
mass of evaporating dish		
mass of evaporating dish + $CuCl_2 \cdot nH_2O$		
mass of copper(II) chloride hydrate		
mass of copper(II) chloride + evaporating dish (after heating) (g)		
1st mass recording after heating		
2nd mass recording after heating		
3rd mass recording after heating (if needed)		
mass of H_2O		
moles of H_2O		
mass of anhydrous $CuCl_2$		
moles of $CuCl_2$		
formula of the copper(II) chloride hydrate		

*Show calculations for trial 1.

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Name: _____