

Name: _____

Period: _____

Date: _____

Copper Cycle Lab Observations

	Reactants			Products			
2	Cu (s) copper metal	+	HNO ₃ (aq) nitric acid	→	N ₂ O ₄ (g) dinitrogen tetroxide gas	+	Cu ⁺⁺ (aq) aqueous copper(II) ions
4	Cu ⁺⁺ (aq) aqueous copper(II) ions	+	NaOH (aq) aqueous sodium hydroxide	→	Cu(OH) ₂ (s) solid copper(II) hydroxide		
Day 1							
5	Cu(OH) ₂ (s) solid copper(II) hydroxide			→	CuO (s) solid copper(II) oxide	+	H ₂ O (g) water vapor
8	CuO (s) solid copper(II) oxide	+	HCl (aq) hydrochloric acid	→	Cu ⁺⁺ (aq) aqueous copper(II) ions	+	H ₂ O (l) water
Day 2							
1	Cu ⁺⁺ (aq) aqueous copper(II) ions	+	Al (s) aluminum metal	→	Cu (s) copper metal	+	Al ⁺³ (aq) aqueous aluminum(III) ions
2	Cu ⁺⁺ (aq) aqueous copper(II) ions	+	NH ₃ (aq) aqueous ammonia	→			Cu(NH ₃) ₄ ⁺⁺ copper(II) tetra ammine