Evidence of Chemical Reactions /16		Name: Date:	Bl:
• urpose: To observe a series o			
PPE: Goggles, Lab coats, glov	es if working with the (Copper II Chic	oride
Materials:			
3.Og Copper II Chloride (CuCl ₂)	15 cm x 15 cm aluminum	foil petri disl	h
100mL beaker with 50 mL water	Glass stirring rod	digital so	
Themometer	graduated cylinder		
CAUTION: DO N	NOT TOUCH THE COPPER	II CHLORIDE	
Procedure:	,	0.1301130	
 Measure the temperature of the way. Use a dry plastic petri dish to mease Examine the copper II chloride and Carefully pour the 3.0 g of copper Observe the liquid for three minutes. Stir with the glass rod until the copper solution and record its temperature. Crumple the aluminum foil into a load. Look carefully for evidence of a cheer. Place the contents of the beaker. "Now you can to the plant of the p	sure 3.0g of copper II chloride. d record 2 properties below. II chloride into the beaker filled outes without disturbing it. Record II chloride is completely dissore. Dose ball and push it down into the emical reaction. Record the tem	with 50 mL of wate cord 2 observation solved. Place a the the liquid with the operature in ^o C. tied by the teache	er. Do NOT stir. ons. ermometer in the glass stirring rod.
Observations:			/6
Step 1.Temperature of water =	oC		
Step 2. 2 Properties of Copper II Chlor	ride before reaction		
Step 3. 2 Observations of water + Co	pper II Chloride after 3 min	utes reaction	
Step 4. Temperature of water + Coppe	er II Chloride after stirring =	=oC	
Step 6. 2 Observations of liquid after	_		
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ep 6. Temperature of water + Copper II Chloride + crumpled foil = _____°C

Discussion Questions:

For example: temperature change, bubbles or colour change. Choose one and give a reason for your choice.		
		
Identify the following as a Quantitative or a Qualitative property: a.) Copper II chloride is a blue solid.	/2	
b.) Water + Copper II Chloride had a temperature of 24°C.		-
3. (a) What kind of energy was produced by this reaction?	/1	
(b) Where do you think this energy came from?	/1	
4. List 2 chemical reactions that occur in your home.	/2	
Conclusion: n this lab I learned (tell me 2 things you learned about chemical reactions)	12	
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1. Which observation provides the most convincing evidence of a chemical reaction?

Please hand in to IN BIN when done.



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