

Name _____ Date Due _____

Homework 3 – Electrolysis, coloured ions and structures.

1. Complete the table of an electrolysis .

Compound	Positive ion & colour	Negative ion & colour	Colour at positive electrode	Colour at negative electrode
$\text{Cu}(\text{CrO}_4)_2$	Cu^{2+} blue	CrO_4^- yellow	Yellow	Blue
KMnO_4	K^+ colourless	MnO_4^- purple		
NiCl_2		Cl^- colourless	green	
$\text{Co}(\text{MnO}_4)_2$	Co^{2+} red			
$\text{Na}(\text{Cr}_2\text{O}_7)_2$	Na^+ colourless	Cr_2O_7^- orange		
Cu		Br colourless		
$\text{Mn}(\text{CrO}_4)_2$	Mn^{2+} Pale pink			

2. What is the difference between a covalent network and a covalent molecule?

3. Complete these sentences.

I would expect Sodium chloride to dissolve in water because _____

I would expect carbon dioxide not to dissolve in water because _____

4. What do you think are the three most important things that you've learnt in s4 Chemistry so far? Why?