CHEMISTRY DEPARTMENT S.6 BRAINSTORMING TEST

TOPIC; TRANSITION ELEMENTS

SUB-TOPIC; CHEMISTRY OF NICKEL

NAME	
Signature STREAM_	
Instructions: Attempt all questions in this paper.	
1. (a) (i) State two reasons why nickel is a transiti	ion element. (2 mks)
(ii) Write an equation for the reaction when nicke in a dry test tube.	l(ii) ethanoate is heated
(b) State what is observed and write an equation nickel sulphate solution is added each of the follow	
(i) Sodium hydroxide solution drop-	wise until in excess
Observation	(01 mark)
Equation	(01 mark)
(ii) Ammonia solution drop wise until	l in excess.
Observation	(01 mark)
Equation(s)	(03 marks)

(iii)	Potassium hexacyanoferrate(II) solution.			
Observation				
Equation			(1½ marks)	
Observation	•	hexacyanoferrate(I]	II) solution	
Equation			(1½ marks)	
(c) Briefly	describe the conf	firmatory tests for 1	nickel(II) ions in a lab.	
	 			

END.