

Name _____ Date Due _____

Homework 3 – Ionic and Covalent

1. What are the differences between ionic and covalent compounds?

2. Why do ionic compounds conduct electricity as liquids and solutions but not as solids?

3. Complete the table.

Substance	State	Ionic or covalent	Conducts? (yes/no)
Sodium thiosulphate	Solid	Ionic	
Sodium thiosulphate	Liquid (melt)	Ionic	
Sodium thiosulphate	Solution (in water)	Ionic	
Wax	Solid	Covalent	
Wax	Liquid (melt)	Covalent	

4. Nickel ions are green and chromate ions are yellow. If a solution of nickel chromate is electrolysed, why would you expect to see a green colour at the negative electrode and a yellow colour at the positive electrode?