## <u>Periodic Trends Worksheet #1</u> 1. Describe the contributions made by the following scientists: Mendeleev and Moseley

	gas electron configuration for the fo		
	b. Al		
g. V	e. Po	f. Hs electron configuration of an e	lement and the period in
3. Write the noble a. Be	gas electron configuration for the fo	llowing elements: c. Ca	
d. Sr	e. Ba	f. Ra	
4. V	How do the electron configurations we will be a configuration of the which group of elements are the alka	specific block location of an e	element?
6. V	Which group of elements are the alka	lline earth metals? List four c	haracteristic properties:
8. V	Vhat name is used to refer to the ent Vhich group of elements are the halo	gens? List three characteristi	
9. V	Which elements are the metalloids?	List their characteristic proper	rties:
11.	Which groups of elements are the m Which group of elements are the no	ble gases? List three characte	eristic properties:
following electron	g at a periodic table, identify the perconfigurations are located.  Group a. [Ne]3si Group b. [Kr]5si Group c. [Xe]6si Sroup c. [Xe]6si Sroup c.	-	th the elements with the
13. Without lookin	g at a periodic table, write the exped		on for each of the
t	a. Group 7, Period 4 b. Group 3, Period 5 c. Group 12, Period 6		
15.	14. What are valence electro Which main group elements have 1 Which main group elements have 6	valence electron?	
	. Write the nuclear symbol for an ion v How many electrons are in this ion?		
18	. Write the nuclear symbol for an ion who want the many protons are in this ion?	vith a charge of -2, 18 electrons, b. Is it an anion or	and 18 neutrons.
	. Write the nuclear symbol for an ion v How many electrons are in this ion?		