cience 9 REV	IEW-Elem	ents and the Peri	odic Table
ame:	Da	te:	Block:
se this Review, as v hemical Properties' nd Ions" Worksheet	' Worksheet, and	d "Applying Knowledge -	ok, "The Periodic Table and - Bohr Diagrams of Atoms
ection 1: Explain 1	he Organizatio	n of the Periodic Table	of Elements
		able are metals located	
		able are non-metals loc	
c) Where are	metalloids locat	ed on the Periodic Table	? between metals/non-m
		ડ ૯ ox on the periodic table'	
Z. What imornia			
Make sure each box.	e you know when	re each piece of information	ss, ion charge tion for elements is located in
each elemen	t.		pt (protons) found in
a neutral ato	<u>m.</u>	_	# ofe- (electrons) in
5. What elemen	it has 55 electro	ns? <u>Cs (Ce</u> :	sium)
		number) = $+p^++$	
		•	
7. Complete the	e following table		
Element		Argon	Selenium
Protons		18	34
Neutrons		22	45
Mass Num	ber	40	79
O. A family of a	olomonto io foun	d vertically	on the periodic table and a
period of ele	ements is found	horizontally	on the periodic table.
		families we have discu	ssed about in Science 9?
ALL	di motal	C	
• - , •	411 1112 11	2- 200	

Chemistry Unit - Part 2 - Elements and the Periodic Table Science 9 Section 2: Distinguish between Metals, Non-metals, and Metalloids ives away What are the properties of metals and non-metals? gains e-Non-metals Metals Shiny Good conductors of heat poor conductors of heat and electricity 3 electricity brittle malleable and ductile 1. What causes reactions in elements? <u>electrons</u> in outermost shell 2. What are valence electrons? e- found in outermost Shells 3. Provide two examples of elements that are metalloids. BAISI, Ge, AsSb, Te, Po 4. a) Do metals gain or lose electrons? 5. a) Do non-metals gain or lose electrons? b) What charge is on non-metals when they gain or lose electrons? _ (negative) Section 3: Use the Periodic Table to Predict the Properties of a Family of Elements 1. Which family is unreactive and stable? Why are they that way? Noble goses. Their outer shells are full of e-. 2. How many valence electrons are in each family? Alkali metals: Alkaline Earth metals: Halogens: 7 (or missing 1e-) Noble gases: Full outer shells 3. If you lose 2 electrons, what charge will you have on the new ion? What family would you be part of? +2, Alkaline Earth motals 4. a) What is the most reactive metal? What family can it be found in? Francium, alkali metals

b) What is the most reactive non-metal? What family can it be found in?

Fluorine; Hulagens

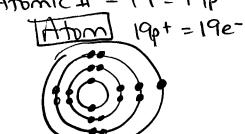
Section 4: Draw Bohr Diagrams

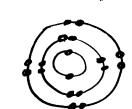
1.	. What is the difference between the word atom and ion? Atom is neutral	
	(# ot - # o -). Too is a charged atom (#pt + #	e-)
	b) t/- charges.	

2. Is Na an ion or an atom? How do you know? Atom, no charge [Na] would be an ion *

3.	Draw the Bohr diagram of an atom and an ion	of potassium	٦.
Ah	mic # = 19 = 19pt	_	10

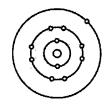
In 19pt/18e-





4. Looking at the Bohr model below, what element do you have? How do you know?

11e-=11pt Sodium



The number of et is 11. 11e = 11pt => atomic #

5. Fill in the information for atoms and ions in the following table: drawing.

	Mg et = 12	N pt = 7
Atom	2,8,2	25
lon	2,8,2 (ost 2e=) 2,8	ain 3e- 2,8

Chemistry Unit – Part 2 – Elements and the Periodic Table Science 9

Here's a space to write down things that you are good at in this part of chemistry and things you struggle with.

Write down hints for the parts you struggle with.