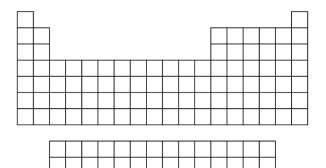
			Date:
ock:			Science 9
			Chemistry
<u>hemistry Uni</u>	it Review		
	Bohr or Lewis diagrams for		
	protons and the number of		
Element	Bohr Model	Element	Lewis Model
Lithium		Phosphorus	
atom		atom	
Chlorine		Chlorine	
Ion		ion	
ion		IOII	
$MgF_2$		NH <sub>3</sub>	
H <sub>2</sub> O		CH <sub>4</sub>	
12.0			

_		_		-	
2	n.		odic	 - 1- 1	
,	PP	rıc	$\alpha \alpha \alpha$	 an	ıe.

On the blank periodic table, label/colour the following items:

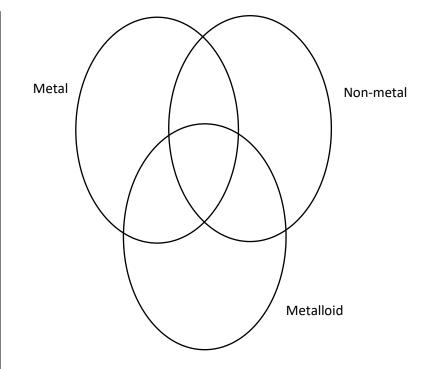
- a. Metals
- b. Non-metals
- c. Metalloids
- d. Alkali metals
- e. Alkaline earth metals
- f. Halogens
- g. Noble gases



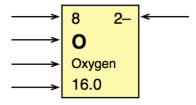
Name:	Date:
Block:	Science 9
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3. Complete the following Venn diagram by placing the letter in the right spot:

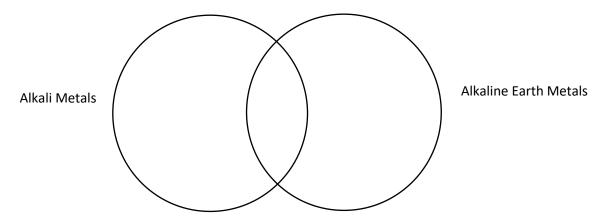
- a.) Brittle
- b.) Ductile
- c.) Not shiny
- d.) Malleable
- e.) Not ductile
- f.) Not malleable
- g.) Shiny and smooth
- h.) Dull-looking solids
- i.) Including halogens
- j.) Include noble gases
- k.) Includes alkali metals
- I.) Gases at room temperature
- m.) Includes alkaline-earth metals
- n.) Mostly solids at room temperature
- o.) Poor conductors of electric current
- p.) Poor conductors of thermal energy
- q.) Good conductors of electric current
- r.) Good conductors of thermal energy
- s.) Some elements are liquids at room temperature
- t.) Has an atomic mass and a distinct atomic number
- u.) Have physical and chemical properties of both metals and non-metals
- v.) Can react with other elements to form compounds (except most noble gases)
- w.) Elements that are made of atoms consisting of protons, electrons and neutrons



4. Label the following diagram with the appropriate terms:



5. Compare and contrast alkali metals and alkaline earth metals. Brainstorm at least 4 differences and 4 similarities between the two families.



		Date:	Science 9
	The columns on the periodic table are called:		Chemistry
7.	The rows on the periodic table are called:		
8.	Describe a periodic trend relating to radius.		
9.	List the three subatomic particles and their accompanying cha	arges:	
10.	Label the following diagram:		
11.	Most of the volume from an atom comes from:		
12.	Most of the mass from an atom comes from:		
13.	What is a valence shell?		
14.	How many electrons are able to occupy in		
	<ul><li>h. The first shell?</li><li>i. The second shell?</li><li>j. The third shell?</li></ul>		
15.	All atoms in the same period will have the same number of _		·
16.	All atoms in the same group/family will have the same numb	er of	·
17.	Why are Noble Gases stable?		
18.	Why do elements tend to lose or gain electrons and become is	ons?	

19. Describe how ionic compounds are formed based on their valence electrons.

Name:		Date:	
			Science 9
20. E	Describe how covalent compo	ounds are formed based on their valence electrons.	Chemistry
	•		
	Naming ionic and covalent co		
V	Write formulas for the follows k. Lithium chloride	ing compounds and classify as ionic (I) or covaler	ıt (C):
	l. Silver nitrate		-
			-
	m. Zinc hydroxide		-
	n. Carbon disulfide		-
	o. Iron (III) phosphate		-
	p. Copper (I) iodide		-
	q. Tin (IV) fluoride		-
	r. Barium dichromate		-
	s. Beryllium nitrite		-
	t. Sulfur trioxide		-
	u. Boron trichloride		-
			-
	w. Strontium sulfide		_
	x. Tin (II) iodide		-
	y. NaClO <sub>4</sub>		-
	z. $P_2O_3$		-
	aa. Li <sub>3</sub> P		-
	bb. FeS		_
	cc. MgBr <sub>2</sub>		_
	dd. PbCrO <sub>4</sub>		_
	ee. ZnSO <sub>4</sub>		_
	ff. $K_2CO_3$		-
	gg. Cl <sub>2</sub> S <sub>5</sub>		-
	hh. Al <sub>2</sub> O <sub>3</sub>		-
	ii. NF <sub>3</sub>		_
	jj. Cu(NO <sub>3</sub> ) <sub>2</sub>		_

kk.  $Cu(NO_3)_2$