Chemistry Review

1. Match the following definitions with the terms from the word list to the right.				to the right.
		Anything that occupies space.	(a)	atom
		A pure substance that can be broken down by chemical changes.	(b)	compound
		Two or more substances that are together and can be separated by physical changes.	(c)	heterogeneous mixture
		A mixture that is the same throughout.	(d)	homogeneous mixture
		A mixture with visible components.	(e)	matter
		The smallest particle of an element that has the properties of that element.	(f)	mixture
		Two or more atoms joined together by chemical bonds.	(g)	molecule
2.		te if each of the following is a homogeneous mixture, lound, or element.	netero	geneous mixture,
	(a) Po	opsicle		
	(b) C	hili		
	(c) O	xygen		
	(d) W	vater		
	(e) M	Tilk		
	(f) Su	ıgar		
	(g) N	itrogen		
	(h) G	asoline		
	(*) 17			

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3.	Differentiate between physical and chemical properties.
4.	Indicate if each of these is a physical or chemical property.
	(a) Boiling point
	(b) Acidity
	(c) Ability to rust
	(d) Melting point
	(e) Color
	(f) Flammability
	(g) Density
5.	Differentiate between physical and chemical changes.
6.	How do you know a chemical change is occurring or has occurred?

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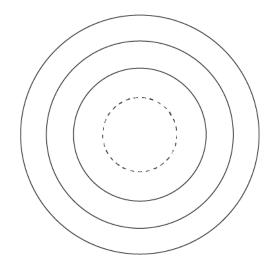
Inc	dicate if each of the following is a physical or chemical change.
(a)	A hot dog is cooked
(b)	Water is boiled to make pasta
(c)	Old ham goes bad in the refrigerator
(d)	A rock star gets a tattoo on his forehead
(e)	Paper is burned
(f)	Sanding a piece of wood
(g)	melting butter
(h)	blowing up a balloon
(i)	salt dissolving
(j)	colors fading in the sunshine

8. Complete the following charge about the particles inside an atom.

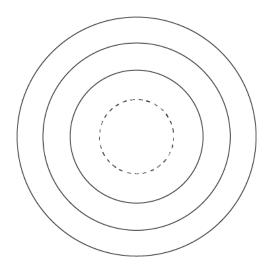
Particle	Symbol	Charge	Location
		positive	
	n ⁰		
			clouds surrounding nucleus

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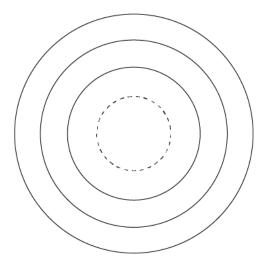
- 9. Draw Bohr diagrams for each of the following elements.
 - (a) Oxygen



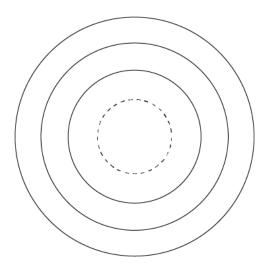
(b) Lithium



(c) Sulfur



(d) Aluminum



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10. Complete the following chart of element names and symbols.

Element Name	Element Symbol
Carbon	
	N
Calcium	
	Au
Chlorine	
	Cu
Silver	
	Be
Tin	
	Mg

11. List the elements and the number of each element in each of the following compounds.

(a) H₂SO₄

(b) NH₃NO₃

	(c) CuSO ₄
	(d) Mg(OH) ₂
12.	Differentiate between the groups or families on the periodic table and the periods.
13.	Where are the nonmetals located on the periodic table?
14.	List the properties of metals.

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15.	List the properties of nonmetals.	
16.	What is a metalloid?	
17.	Indicate if each of the following elements is a metal of	or a nonmetal
	(a) Sodium	
	(b) Oxygen	
	(c) Calcium	
	(d) Helium	
	(e) Cl	
	(f) Ar	
	(g) Li	
	(h) Cu	

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18.	. Indicate the group or family that each of the following elements i		
	(a)	Magnesium	
	(b)	Bromine	
	(c)	Krypton	
	(d)	Sulfur	
	(e)	Potassium	_
	(f)	Manganese	

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