## **SNC 1P - Chemistry Review**

### **Physical and Chemical Properties & Changes** Fill in the blanks below using the following words

state behaviour flammability		description chemical evaporating	hardness texture	combustibili senses dissolving	•
naminability	properties	evaporating	priysical	dissolving	new
1. A physical proper five _senses		tionof an obj	ect. It can usually be	made by using	g your
2. Examples of physical	sical properties	s include <i>texture</i> _	,colour	_ and <i>hard</i>	iness.
3. A chemical propenew subs		ne <i>behaviour</i> of a sub	stance as it becomes	а	
4flammability_	and combu	ustibilityare exam	ples of chemical prop	erties	
5. In aphysical_	5. In aphysical change, the substance involved stays the same.				
6. All changes of <i>state</i> are physical changes.					
7. Examples of physical changes include: dissolving and evaporating.					
8. When theoriginalsubstance is changed into one or more different substances, known as achemical change.					
9. In a chemical change, the new substance formed has new properites					
10. List 5 clues that a chemical reaction has occurred.					
1. <u>odour</u>			_		
<ol> <li>precipita</li> <li>bubbles</li> </ol>			<del></del>		
		sorbed	-		
		· · · · · · · · · · · · · · · · · · ·	<del></del>		

12. Decide and explain chemical or physical change Chemical or Physical Change

	Chemical or Physical	Reason
Water evaporating	Phys	Change of state
Ripping paper	Phys	Change of size
Water freezing	Phys	Change of state
Dissolving Kool Aid	Phys	Change of size
A candle burning	Chem.	New substances formed
Wax melting	Phys	Change of state
Baking a cake	Chem.	New substance formed

13. Is rusting, a specific example of corrosion, a physical or chemical change?

Chemical

i)painting	•	iii) _removing moisture
15. What material is resp	onsible for the colour in firewor	rks? metals
16. Matter. Match the de	escription on the right with th	ne term on the left.
<u>M</u> atter F <u>E</u> lement K		ng nervous system damage kind of atom or molecule
Compound H Atom J	C. a mixture of metals D. salad dressing (oi	
<u>h</u> eterogeneous D	E. a naturally occurri	ng compound containing meta
<u>h</u> omogenous I	F. has mass and occ	upies space
_mixture L	G_ minerals mixed in	with rock
pure substance B molecules M	H. 2 or more element I_ Kool Aid	ts in chemical combination
<u>o</u> re G	J. smallest particle of n	natter
heavy metal A	K. Ne	
_mineral	E L. consisting of	2 or more pure substances
<u>a</u> lloy C	M. a combination of 2 of	or more atoms

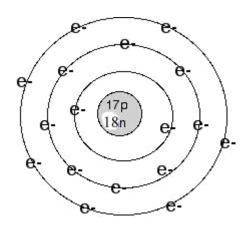
# 17. Fill in the Subatomic Particles chart below

Particle	Charge	Mass	Location in the atom
Electron	Negative	1/2000	Around nucleus
Neutron	Neutral	1	inside nucleus
Proton	positive		1 Inside nucleus

### 18. For Chlorine, atomic number 17;

Draw a Bohr Rutherford Diagram

Write in Standard Atomic Notation



35 Cl 17	

**19.** <u>Counting Atoms.</u> Name the atoms present and state number of atoms in each of the following.

	Type	Number
i) NaCl	sodium	1
	chlorine	1
	TOTAL	2
ii) NaHC0₃	sodium	1
	hydrogen	1
	carbon	1
	oxygen	3
	TOTAL	6

20. Compound Formulas. Make a formula with the given elements and provide a name.

Elements	Formula	Name
Ca (2), F(1)	Calcium fluoride	CaF2
C(4), 0(2)	Carbon oxide	CO2
N(3), H(1)	Nitrogen hydride	NH3

#### 21. Periodic Table True or False.

a) Mendeleev arranged the elements according to their atomic number

b) Currently, the periodic table is arranged according to the atomic masses

c) There are more metals than non- metals

d) The metalloids share properties of both metals and non-metals

e) Elements with a full electron shell are stable gases

f) Mercury and Bromine are liquids at room temperature

g) the horizontal rows going across the table are called groups

h) the vertical chemical families have similar properties

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