S9 Chemistry Unit Checklist

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1.	I have taken the online Science Focus quizzes and the Quest A+ test for this unit.
2.	I have completed and know my vocabulary for this unit.
3.	What are the 8 WHMIS symbols?
T1	
4.	What is the difference between pure substances and mixtures? 2b. Give an example of
T1	each.
5.	5a. What is the difference between an element and a compound? Give an
T1	example of each.
10000000 10000000000000000000000000000	5b. Are elements and compounds pure substances or mixtures?
6.	4a. What is the difference between a homogeneous and a heterogeneous
T1	mixture? Give an example of each.
7.	
T1	Homogeneous mixtures are usually solutions. What is a solution? Give an example of a solution.
8.	Why is the alloy brass considered a solution (homogeneous mixture)?
T1	TATE (1.1) 1:00
9.	What is the difference between the 4 types of heterogeneous mixtures: ordinary
T1	mechanical mixtures, suspensions, colloids and emulsions? Give an example of each.
10.	What is the difference between a physical and a chemical change? Give an example of
T2	each.
11.	11a. List 5 types of evidence we can use for chemical change.
T2	11b. Is a change of state a chemical or physical change? Defend your answer.
12.	12a. What is the difference between qualitative and quantitative physical
T2	properties of substances?
	12b. List 4 qualitative physical properties of matter.
	12c. List 4 quantitative properties of matter.
13.	List 8 chemical properties of matter.
T2	and a substitute of matter.
14.	What is the Law of Conservation of Mass? Give an example.
T3	What is the daw of conservation of Mass: Give all example.
15.	What is the Law of Definite Commention? Circan and and
T3	What is the Law of Definite Composition? Give an example.
	Light the F different at incident all the light and the li
14.	List the 5 different atomic models and the scientist who made the theory.
T2	
15.	Label on a periodic table: groups, periods; metals, non-metals, and metalloids; and the 4
T4/5	main groups of elements: alkali metals, alkaline earth metals, halogens and noble gases.
16.	What is the name of the scientist who invented the periodic table.
T4/5	
17.	List the properties of metals vs non-metals.
T4/5	
18.	How do you find the name of the element if you are given its symbol.
T4/5	
19.	What is the total # of atoms and the number of each type of atom in each of the following
T4/5	compounds.
7 -	H ₂ O
	NH_3
	$C_6H_{12}O_6$
*	G61112V6

20.	20a. How do you find the atomic number and atomic mass of any element?
T4/5	20b. How do you determine if an element is a solid, liquid or gas?
	20c. How do you find the number of protons, electrons and neutrons of any element: Ex.
	iron?
21.	21a. Where do you find the following parts of an atom: proton, electron, neutron?
T4/5	21b. What is the charge of: protons, electrons, neutrons?
22.	How do you know if a compound is molecular or ionic?
T6	
21.	How do you write a formula for an ionic compound from its name: Ex. magnesium
Т6	chloride?
22.	How do you write the name of an ionic compound from its formula: Ex. Bal₂?
T6	
23.	How do you write the formula of a molecular compound from its name: Ex. silicon
Т6	dioxide?
24.	How do you write the name of a molecular compound from its formula: Ex. CCl₄?
Т6	now as you write the name of a more and some pound in some as a second of the second o
25.	I can describe 3 differences between molecular and ionic substances.
T6	rean describe 5 amerenees between morecular and rome substances.
26.	Which bond involves the transfer of electrons?
T6	Which bolls involves the transfer of electrons.
27.	Which bond involves the sharing of electrons?
T6	with bold involves the sharing of electrons:
28.	How do you find the ion name and charge of any element?
T6	now do you find the foil fiame and charge of any element:
29.	I know the formulas for the "gens", fuels like methane and propane, and ammonia.
T6	T know the formulas for the gens, ruels like methane and propane, and animoma.
30.	In a chemical reaction what are the reactants? Products? Give an example.
T7	in a chemical reaction what are the reactants? Products: Give an example.
	Lean write a chemical word equation. Cive an example
31.	I can write a chemical word equation. Give an example.
T7	II.
32.	How do you know if a reaction is an exothermic or endothermic reaction? Give an example
T7	of each.
33.	33a. What is the reaction rate of a reaction?
Т8	33b. What are 5 things that can speed up a reaction?
	33c. How can you slow down a reaction (give at least 4 ways)?
34.	What is a catalyst? Why is an enzyme called a natural catalyst? What is an inhibitor? Give
T8	an example of each.
35.	35a. What is the common name for a CORROSION REACTION?
Т8	35b. Write a word equation for corrosion.
	35c. Why don't we like corrosion?
	35d. Give 4 things we can do to prevent corrosion.
36.	36a. What is the common name for a COMBUSTION REACTION?
Т8	36b. Write a word equation for combustion.
	36c. Why don't we like combustion? When do we like it?
	36d. Give 4 things we can do to prevent corrosion.

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