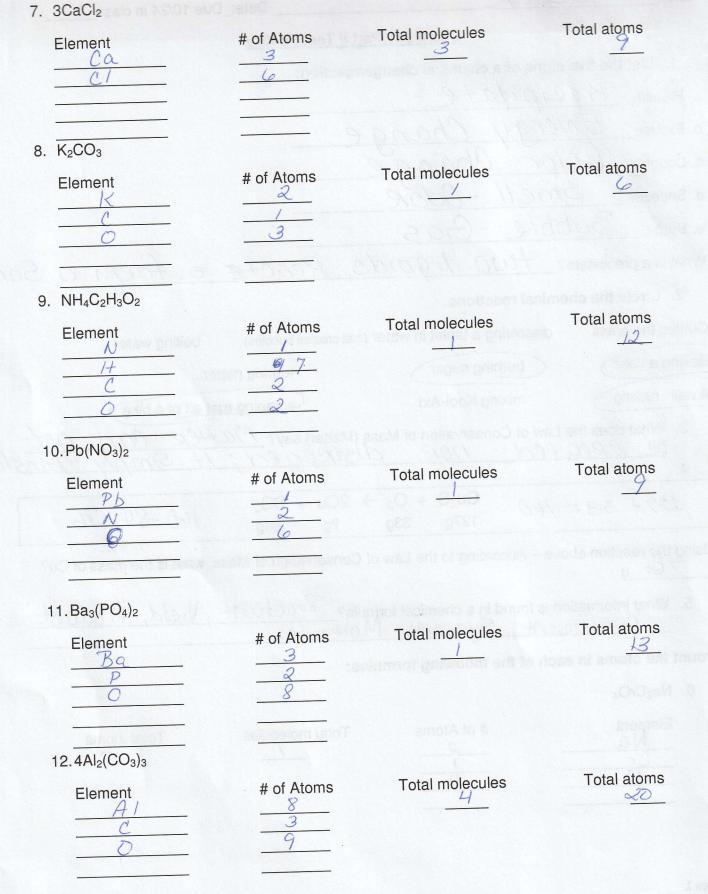
Master Name Date: Due 10/24 in class **Chemistry Part II Test Review** 1. List the five signs of a chemical change/reaction: Precipitat a. Please Ne b. Excuse c. Coughs SM d. Sneezes SUDD e. Burps orm a Solia React guids What is a precipitate? 2. Circle the chemical reactions. dissolving a tablet in water (that creates bubbles) boiling water Cutting the grass Baking a cake burning sugar tearing paper scraping rust off of a bike A nail rusting mixing Kool-Aid 3. What does the Law of Conservation of Mass (Matter) say? Matter alstR0 DOR CROGERA 4. $Cu_2S + O_2 \rightarrow 2Cu + SO_2$ 160-84= 76 127+33=160 127g 33g ?g 84g Using the reaction above - According to the Law of Conservation of Mass, what is the mass of Cu? 76 g 5. What information is found in a chemical formula? Keactant, Vield, Product CUEFficient, Symbols, Molecules Count the atoms in each of the following formulas: 6. Na₂CrO₄ Element Total molecules Total atoms of Atoms 0 7



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13. What is the arrow sign called in a chemical equation? <u>Vield</u> 14. What does it mean? <u>Chem Reaction</u> has occurred

15. What are the substances on the left of the arrow in a chemical equation called?

16. What are the substances on the right of the arrow in a chemical equation called?

All: answer the following questions about each reaction

OL: Circle the following equations that follow the Law of Conservation of Matter/Mass. (balanced)

HONORS: If a reaction is not balanced, write the correct balanced equation. If it is not possible, write "not possible".

17. What is a balanced equation? What does balanced mean in this case? The total <u>Atoms on the Reactant Stole equal the Atoms</u> 18. CaCl₂ + 2AgNO₃ → 2AgCl + Ca(NO₃)₂ On the product side BALANCED a. How many reactants are there in the equation above? 19.2KCIO3 → KCI + 302 UNBALANCED $20.H_2O + CO_2 \rightarrow H_2CO_3$ BALANCE $21.H_3 + H_2O \rightarrow NH_4OH$ UNBALANCED a. How many COMPOUNDS are in the equation above? 22.Zn + HCI → ZnCl2 + H2 UNBALANCED $23.6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + O_2 UNBALANCED$ a. How many atoms of Oxygen are on the reactants side of the equation?
b. How many atoms of Oxygen are on the products side of the equation? 24. Na + O2 → Na2O UNBALANCED $25.2H_2O_2 \rightarrow 2H_2O + O_2$ BALANCEP $26.2NaNO_3 \rightarrow 3NaNO_2 + O_2$ UNBALANCED

27.2AI + 3CI → AICI3 UNBAL

28. $2P + 3I_2 \rightarrow 2PI_3 \qquad PAL$

a. How many elements are there in the equation above?

29. $2AI + 2H_3PO_4 \rightarrow 3H_2 + 2AIPO_4$

a. How many molecules in the reactants of the equation above?

b. How many molecules in the products of the equation above?

Chemistry Part I Test Review

- 30. What are the three subatomic particles? Protons Neutrons Electrons
- 31. How do you find the number of protons in an atom? Atomic #

32. How do you find the number of electrons in an atom? <u>SAME As Electron</u> 33. How do you find the number of neutrons in an atom? <u>Mass - Protons - Neutron</u>

34. Complete the following table about the three subatomic particles.

Name	Charge	Location in atom	Mass of particle	Symbol in models
Proton	Positive	Nucleus	7 AMU	(+)
Electrons	negative	Cloud	less than	Θ
Neutrons	Neutral	Nucleus	7 AMU	n ^o
35. Which suba	tomic particles are t	he heaviest? PRO	TONS NEW	RON

36. Which one is the lightest? Electron

37. Which subatomic particle determines the identity of an atom? PROTONS
38. Which subatomic particles contribute mass to an element?
39. The majority of the mass of an atom is found in its Neucleus

40. Does altering the number of electrons change the element? No

41. Does altering the number of protons change the element? Ves

Define the following terms:

42. Element:

43. Compound:

44. Mixture:

45. Rows on the Periodic Table are called:

and run

46. Columns on the Periodic Table are called
and run
47. Where are the metals located on the Periodic Table?
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