

Name \_\_\_\_\_  
Date \_\_\_\_\_ Per \_\_\_\_\_

### Chemistry Test (Part 1)

**Multiple Choice: For the following questions, please circle the best answer. Each question has only one right answer (2 points)**

1. In which state of matter do molecules have a definitive shape?

- A) Plasma
- B) Liquid
- C) Solid
- D) Gas

2. Which of the following would be considered an element?

- A)  $\text{CO}_2$
- B) C
- C)  $\text{H}_2\text{O}$
- D) J

3. The molecules in solids

- A) Vibrate
- B) Slide past each other
- C) Cannot move
- D) Move rapidly (zing)

4. The molecules in gases

- A) Vibrate
- B) Slide past each other
- C) Cannot move
- D) Move rapidly (zing)



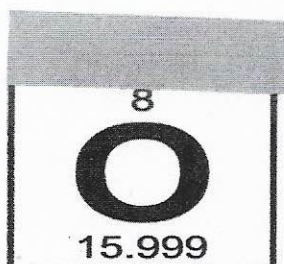
11. What is it called when a substance goes directly from a solid to a gas

- A) Melting
- B) Freezing
- C) Sublimation
- D) Evaporation

12. How do we find the number of neutrons?

- A) You look at the atomic number
- B) You look at the atomic mass
- C) Atomic mass minus atomic number
- D) Atomic number minus atomic mass

Use the following information to answer questions 13-17 (13-16 are 3 points each)



13. What is the name of this element?

14. What is the atomic number of this element? \_\_\_\_\_.

15. What is the atomic mass of this element? \_\_\_\_\_

16. How many valence electrons does this element have? \_\_\_\_\_

17. For 6 points, draw an atom of this element. Two points each for protons, neutrons and electrons.

18. What are the charges of a Proton, Neutron and Electron. (3 points)

19. List two properties each of Metals, Nonmetals and Metalloids. (6 points)

For the following statements, please write the **whole word** True or False. If the answer is False, please rewrite the statement below the original to make it correct. If you do not, you will lose one point per question. 2 points will be deducted for not writing the whole word. (2 points each)

\_\_\_\_\_ 20. Protons and electrons are found in the nucleus of the atom.

\_\_\_\_\_ 21. Electrons are shared in a covalent bond.

\_\_\_\_\_ 22. Each electron shell holds 8 electrons.

\_\_\_\_\_ 23. The Periodic Table is arranged by the element's atomic mass.

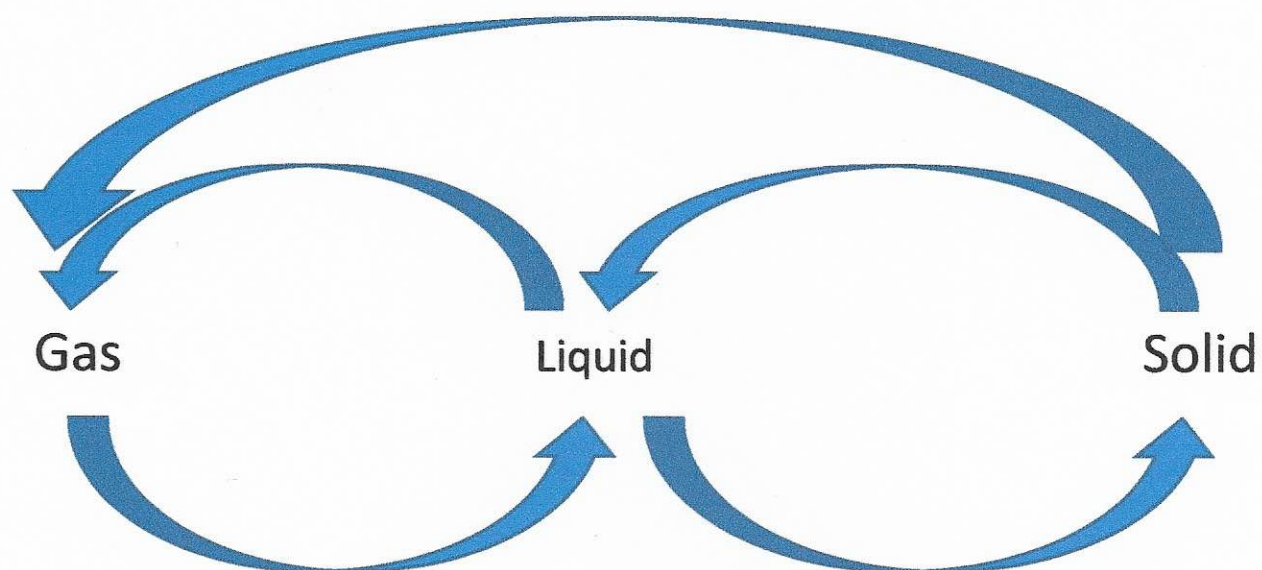
\_\_\_\_\_ 24. The atomic mass number will tell us how many protons are in the atom.

\_\_\_\_\_ 25. Columns on the periodic table are called groups or families.

\_\_\_\_\_ 26. When a substance moves from a gas to a liquid, it is called evaporation.

\_\_\_\_\_ 27. Atoms are made up of only one type of element.

28. Label the arrows on the diagram (5 points, 1 point each)



Write the following element symbols. (2 points each)

28. Manganese \_\_\_\_\_

29. Hydrogen \_\_\_\_\_

30. Phosphorus \_\_\_\_\_

31. Uranium \_\_\_\_\_

32. Potassium \_\_\_\_\_

33. Chlorine \_\_\_\_\_

34. Beryllium \_\_\_\_\_

35. Silver \_\_\_\_\_

36. Silicon \_\_\_\_\_

37. Cobalt \_\_\_\_\_

Write the element names for the given symbols (2 points each)

38. Mg \_\_\_\_\_

39. Au \_\_\_\_\_

40. He \_\_\_\_\_

41. C \_\_\_\_\_

42. B \_\_\_\_\_

43. Ar \_\_\_\_\_

44. Zn \_\_\_\_\_

45. Ne \_\_\_\_\_

46. Pt \_\_\_\_\_

47. Pb \_\_\_\_\_

EXTRA CREDIT: (3 points)

What is the name of the scientist that is credited for creating the first periodic table?