24. When an element in group 2 bonds it will (**share, transfer**) two valence electrons and form a (**covalent bond, ionic bond**) with a non-metal in group 6(16).

25. As a gas like **O_2** cools the motion of the particles _____ in speed.

26. For most substances, as the temperature increases the volume will _____ and as the _____ decreases the volume will _____. This increase or decrease in volume is called _____ _____.

27. Identify as: '**PP**' Physical property, '**PC**' physical change, '**CP**' chemical property, or '**CC**' chemical change.

a. $NaHCO_3$	b. Wood burns
c. boiling	d. apple slices turning brown in air
e. vinegar will bubble when mixed with baking soda	f. water at room temperature
g. cooking a cake	h. water freezing
i. iron rusting	j. digesting your lunch
k. texture	l. color

28. Balance _____ H_2 + _____ O_2 ⟶ _____ H_2O

a. The reactants are: __ H_2__ O_2__ H_2O ____

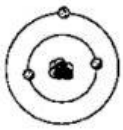
b. The products are: __ H_2__ O_2__ H_2O ____

29. Label **Drag and drop:** Bohr Model, Electron Cloud

a. Which one is the most modern? _____



_____



_____

30. Compare the modern model to the Bohr Model:

Property	Write '**Same**' or '**Different**'
The number of electron for the atom	
The mass of the atomic particles	
The shape of the nucleus	
The arrangement of the electron (the way they move)	
Electrons in energy levels	

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