

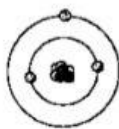
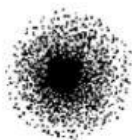
17. Balance $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$

a. The reactants are: H_2 O_2 H_2O

b. The products are: H_2 O_2 H_2O

18. Draw a line to each model Bohr Model, Electron Cloud

a. Which one is the most modern? _____



19. 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 | |

20. Count the atoms in the formulas: $\text{C}_7\text{H}_5(\text{NO}_2)_3$, C - _____ H - _____ N - _____ O - _____

$\text{Ca}(\text{H}_2\text{PO}_4)_2$ Ca - _____ H - _____ P - _____ O - _____

a. $\text{C}_7\text{H}_5(\text{NO}_2)_3$ and $\text{Ca}(\text{H}_2\text{PO}_4)_2$ are examples of a(n) (**element, compound, mixture, abbreviation.**)

21. On the periodic table which elements are most like O – Oxygen: _____, _____, _____, _____. This is because they are in the same _____ or group.

22. A chemical change always produces a _____ and involves change in _____.

23. The Noble gases are the elements: _____, _____, _____, _____, _____, and _____, and are all non _____.

24. The Noble gases (**do, do not**) bond with the other elements because they have a _____ outer energy level.