Concept Attainment

Chemical Formulae

|  |  |  |
| --- | --- | --- |
|  | Ionic compounds | Covalent Molecular materials |
| Examples | magnesium oxide,sodium hydroxide.copper sulphatesodium chloridecalcium nitratebarium chloride | hydrogen gaswateroxygen gassucrose, made of carbon, hydrogen and oxygencarbon dioxideethanoic acid, made of carbon, hydrogen and oxygenmethane, made of carbon and hydrogen |
| Description of material | bond between \_\_\_\_\_\_\_\_\_\_\_\_\_\_ atoms and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ atoms. | bond between \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ atoms and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ atoms. |
| How electrons are involved in bonding | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of valence electrons so an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ charge holds the ions together. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of valence electrons to form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bonds which hold the molecule together. |
| Formula | Balance the transfer of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by the “criss-cross” method. | Write the formula with numbers from the name. |
| Naming | Do not use numbers in the name. | Name the numbers of toms in the molecule;2 is di-3 is tri-4 is tetr-5 is pent-6 is hex- |