Lewis Formulas and Structural Formulas for Molecules

**Practice Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Fill in the following Tables:

***(1 mark per blank)***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Electron Dot Diagram** | **Number of Lone Pairs** | **Number of Bonding Electrons** |
| Sodium |  |  |  |
| Carbon |  |  |  |
| Nitrogen |  |  |  |
| Argon |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Formula** | **Electron Dot Diagram** | **Structural Formula** |
| Ammonia |  |  |  |
| Liquid bromine |  |  |  |
|  |  | Image result for electron dot for hydrogen gas |  |
| Hydrogen chloride |  |  |  |
| Nitrogen triiodide |  |  |  |
|  |  |  | Image result for electron dot for N2H4 |
|  | N2 |  |  |
| Carbon dioxide |  |  |  |
| Ethane |  |  |  |
| Ethene |  |  |  |
| Acetylene |  | Image result for electron dot for acetylene |  |
| Water |  |  |  |
|  |  |  | Image result for electron dot for CH3OH |
| Chlorine |  |  |  |
|  |  | Image result for electron dot for methane |  |
| Oxygen disulfide |  |  |  |
| Hydrogen peroxide |  |  |  |
| Dichloroethane | C2H4Cl2 |  |  |
| Formaldehyde | H2CO |  |  |
|  | HCN |  |  |
| Dichloroethyne | C2Cl2 |  |  |
| Hydronium ion | H3O+ |  |  |
|  | NO3- |  |  |
| Nitrosyl | NO+ |  |  |
|  | PO43- |  |  |