**Purpose**

To build models, both two dimensional and three dimensional from molecular formulas, using Lewis Dot Structures as a guide

For each molecule, first draw the Lewis dot structure. The build the two-dimensional molecular model, using your knowledge on Lewis dot structures, then build the three dimensional molecular model from the two dimensional model as a guide.

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| **molecule** | **lewis diagram** | **How many electron domaines** | **bonded pairs****(central element)** | **bonded pairs****(central element)** |  **Describe/draw shape** |
| 1. CH4Methane |  |  |  |  |  |
| 2. H2O Water |  |  |  |  |  |
| 3. NH3Ammonia |  |  |  |  |  |
| 4. CO2Carbon-dioxide |  |  |  |  |  |
| 5. CH3ClChloro-methane |  |  |  |  |  |

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| **molecule** | **lewis diagram** | **How many electron domaines** | bonded pairs**(central element)** | **bonded pairs****(central element)** |  **Describe/draw shape** |
| 6.CH2Cl2 dichloro-methane |  |  |  |  |  |
| 7. CH3OHMethanol |  |  |  |  |  |
| 8. C2H6ethane |  |  |  |  |  |
| 9. CH3NH2Methyl-amine |  |  |  |  |  |
| 10. CH2O2Formic Acid |  |  |  |  |  |