SI Worksheet

5/5/22

Agenda:

Kahoot

Worksheet

1. Draw the Lewis Dot Structure for the following molecules and calculate the formal charges.
	1. HCN
	2. PO43-
	3. CH2Br2
	4. NH4+
	5. SO3
2. Complete the below table.

|  |  |  |  |
| --- | --- | --- | --- |
| Molecule  | Basic Geometry  | Molecular Geometry  | Ideal Bond Angles  |
| CO32- |  |  |  |
| SO42- |  |  |  |
| ClF3  |  |  |  |
| SbCl52- |  |   |  |
| TeCl4  |  |  |  |

1. Calculate the enthalpy change from bond energies for each of these reactions:
	1. CH4 (g) + 2O2 (g) 🡪 CO2 + 2H2O
	2. CH4 (g) + H2O 🡪 CO (g) + 3H2 (g)
	3. CH3COOH + CH3OH 🡪 CH3COOCH3 + H2O