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. Graphical user interface, application, table

   Description automatically generatedCalculate 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