

Honors Molecular Geometry Balloon Lab (Group 2)

Materials:

10 atom balloons
3 lone pair balloon
string
scissors
permanent marker

Procedure:

1. Blow up all your balloons to equal sizes.
2. Tie five atom balloons together. Label as AX_5 .
3. Tie three atom balloons and two lone pair balloon together. Label as AX_3E_2 .
4. Tie two atom balloons and two lone pair balloons together. Label as AX_2E .
5. Make a chart for your data with the following columns: Molecule Name, Molecule Shape, and Drawing of Molecule.

Questions:

1. Draw the correct 3-D Lewis dot structure for ICl_4^- including the shape.
2. Draw the correct 3-D Lewis dot structure for XeF_4 including the shape.
3. Draw the correct 3-D Lewis dot structure for BH_3 including the shape.

