

Honors Molecular Geometry Balloon Lab (Group 1)

Materials:

11 atom balloons
1 lone pair balloon
string
scissors
permanent marker

Procedure:

1. Blow up all your balloons to equal sizes.
2. Tie three atom balloons together. Label as AX_3 .
3. Tie four atom balloons together. Label as AX_4 .
4. Tie four atom balloons and one lone pair balloon together. Label as AX_4E_1 .
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.

