

Name _____

Period _____

Partner _____

Date _____

Model Building

Pre-Lab Questions:

1. Identify which color ball is used in your model set to represent each of the following elements:

Carbon _____

Oxygen _____

Hydrogen _____

Chlorine _____

Nitrogen _____

Iodine _____

Build the following molecules using the molecular models. Show them to the instructor for approval and a rubber stamp. Once you have the correct model, draw a Lewis Dot diagram of each structure and identify its molecular geometry.

1) H₂O water

1) _____

Geometry _____

2) CH₄ methane

2) _____

Geometry _____

3) CH₃OH methanol

3) _____

Geometry _____

4) CCl₄ carbon tetrachloride

4) _____

Geometry _____

5) I₂ Iodine

5) _____

Geometry _____

6) O₂ oxygen gas

6) _____

Geometry _____

7) N₂ nitrogen gas

7) _____

Geometry _____

8)CO₂ carbon dioxide

8) _____

Geometry _____

9) Ethane C₂H₆

9) _____

No Central Atom

10) C₂H₄Cl₂ (two isomers) diclholorethane

10a) _____10b) _____