Build a Molecule Activity

Name:
Class:

1. Using the LDMS homework 3 & 4, draw in the LDMS for each of the molecules.
2. Go to phet.colorado.edu/en/simulations/build-a-molecule click on the play symbol to open the activity.
3. Click on "Playground"
4. Use the "buckets" of atoms to build the the molecules in the chart. Click the arrows to access different atom combinations. Drag and drop the atoms into the space above the buckets to "build" molecules based on their LDMS.
5. Once the molecule is correctly built, its common name will appear. Write its common name.
6. Click "3D" to see its shape. Draw its shape.

Molecule	LDMS	Drawing of 3D molecule	Common name
CH_4 Domain: Molecular: Angle:			
NH_3 Domain: Molecular: Angle:			
HF Domain: Molecular: Angle:			
Br_2 Domain: Molecular: Angle:			

Molecule	LDMS	Drawing of 3D molecule	Common name
$CH_3\underline{O}H$ Domain: Molecular: Angle:			
O_2 Domain: Molecular: Angle:			
N_2 Domain: Molecular: Angle:			
$CH_3\underline{C}OOH$ Domain: Molecular: Angle:			
HCN Domain: Molecular: Angle:			
HClO Domain: Molecular: Angle:			

Molecule	LDMS	Drawing of 3D molecule	Common name
C_2H_2 Domain: Molecular: Angle:			
CH_2Cl_2 Domain: Molecular: Angle:			
C_2Cl_2 Domain: Molecular: Angle:			
CH_2O Domain: Molecular: Angle:			
$CH_3\underline{C}H_2Br$ Domain: Molecular: Angle:			
$CH_2\underline{C}HBr$ Domain: Molecular: Angle:			

Molecule	LDMS	Drawing of 3D molecule	Common name
CH_3CHCH_2 Domain: Molecular: Angle:			
$CH_3\underline{C}ONH_2$ Domain: Molecular: Angle:			
$C_2H_4Br_2$ Domain: Molecular: Angle:			
CH_2CCH_2 Domain: Molecular: Angle:			