High Oleic Oil

Molecular Shapes and Polarity

Name	Date
Watch these videos: https://vimeo.com	n/album/3440693

Materials:

Ball and stick model pieces

Procedure:

- 1.Use VSEPR Theory to predict the shape of each of the following molecules. (Count the valence electrons (look up group number); determine electron pairs available for bonding by dividing by two, determine the central atom, attach the terminal atoms, adjust electron pairs to satisfy the octet rule.)
- 2. Count the shared and lone pairs (which determine the shape).
- 3. Predict the shape and draw it.
- 4. Build a model of each molecule to check your predictions.
- 5. Note that if there is a double or triple bond, multiple springs will need to be used.
- 6. Watch the video, Polar & Nonpolar Crash Course in Chemistry http://youtu.be/PVL24HAesnc

	Valence Shell Electrons / Pairs	Draw Lewis Structure See: https://www.youtube. com/watch?	Shared pairs/Lone Pairs	Predicted Geometry		Polar (yes/no)
		v=1ZlnzyHahvo for help		Electron pair	Molecular	
H ₂						
H ₂ O						
CO_2						
NH ₃						
CH ₄						
CH ₃ Cl						
H ₂ O ₂						
F ₂						



High Oleic Oil

	Valence Shell Electrons / Pairs	Draw Lewis Structure	Shared pairs/Lone Pairs	Predicted Geometry Electron pair	Molecular	Polar (yes/no)
N2						
H ₂ S						
PH ₃						
HC1						
C ₃ H ₆						
H ₂ S						

7. Check your answers by watching: VSPER Theory: Common Mistakes https://www.youtube.com/watch?v=8TI bDWCAmo

