

Go to <http://phet.colorado.edu/en/simulation/molecule-polarity>

Download the sim and play around with it – change the electronegativity and watch the bond polarities and molecular polarity change.

Now for each molecule below, draw the Lewis structure, label each atom if it has a partial positive or negative charge, draw the bond dipoles and predict the direction of the molecular dipole.

Check your answer using the applet.

	Lewis structure	Polarity?
H ₂ O		
CO ₂		
CH ₂ O		
CH ₃ F		
CF ₄		