After watching the video segment, write down key points, main ideas and big questions.

Objective(s):

- To use simulations to investigate the intramolecular bond spectrum from ionic to non-polar covalent bonds.

Notes:

During the video segment, use words, phrases or drawings to take notes.

Summary:

After watching the video segment, write at least three sentences explaining what you learned. You can ask yourself: “If I was going to explain this to someone else, what would I say?”
QUESTIONS TO CONSIDER:
UNIT 4, SEGMENT C

After watching the video and performing any associated labs and/or experiments, you should be able to answer the following:

1. A polar covalent bond forms when electrons are shared unequally between atoms. What is true about the electronegativity of these two atoms if their bond is polar covalent?

2. Water is a great example of a molecule with polar covalent bonds. How does this bond affect the behavior of the water molecule?

3. How does that behavior differ from that of a non-polar covalent bond in a diatomic hydrogen molecule?

You are now asked to conduct an investigation of the characteristics of the intramolecular bond spectrum using the following website as a simulation tool: https://phet.colorado.edu/en/simulation/legacy/molecule-polarity

Please make sure you complete this investigation before continuing to Unit 4D. The investigation is explained in video 4C.