Main Ideas, Key Points, Questions:

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

Objective(s):

- To investigate the electrical interactions that occur between atoms to form chemical 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?”
After watching the video and performing any associated labs and/or experiments, you should be able to answer the following:

1. Our current model of a chemical bond is to think of it as an electrical interaction between what two parts of an atom?

2. Two main forces occur in the electrical interactions of an atom: attraction and repulsion. In a chemical bond, which force is the stronger of the two?

3. What is the difference between intramolecular forces and intermolecular forces? Which type is stronger?

4. Draw a Lewis dot diagram of Lithium bonding with Fluorine. How many electrons moved?

5. What is the Octet Rule?

6. Why is the number “+1” written on the periodic table above the period that contains H, Li and Na? Does this period of elements form cations or anions?

7. Ionic bonds are at one end of the bond spectrum. What kinds of bonds are at the other end?

8. If two atoms form a covalent bond, what is the difference in electronegativity between the atoms?