NOTE-TAKING GUIDE:  
Unit 10, SEGMENT F

Main Ideas, Key Points, Questions:
After watching the video segment, write down key points, main ideas and big questions.

Objective(s):
- To analyze data from a Le Chatelier’s principle investigation and explain how equilibrium changes due to temperature.
- To develop and explain visual models of Le Chatelier’s principle.

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. Once you have completed your performance task on Le Chatelier’s Principle, write your data table here.

2. Analyze your data and explain what was happening at the different temperature levels you selected for your experiment.

3. How did you measure a change in the equilibrium of the system?

4. At higher temperature, what happened to the equilibrium of the system? Why?

5. At lower temperature, what happened to the equilibrium of the system? Why?

6. Do you think the equilibrium constant for this reaction is larger at low temperatures or at high temperatures?

7. Write the equilibrium expression for the reaction you investigated.

8. Represent the effect of temperature on this equilibrium by drawing a visual model. Your model should show what happens in this reaction on a molecular level. The model should explain with images why the reactant is favored at one temperatures and the product is favored at different temperatures.

You should draw these visual models before continuing to the Unit 10G video.