

**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.***