

**Main Ideas, Key Points,
Questions:**

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

Objective(s):

- *To learn how to calculate a dilution and plan a procedure to form a solution of a new molarity.*

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. Describe the color of the two copper (II) nitrate solutions you made, what do you notice about the shades of blue? What explains the similarity in color?**
- 2. Define the term dilution.**
- 3. Write the formula known as the dilution equation.**
- 4. Scientists almost always solve for V_1 in a dilution. Solve for V_1 in the following situation: What volume of 17.5 Molar stock solution of acetic acid is required if we prepare 500 milliliters of a 1 Molar acetic acid solution? Show the calculation.**
- 5. Now, write your plan for a dilution from the video or provided by your teacher.**

You should write these plans before continuing to the Unit 7E video.