

**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 the sugar/salt melting investigation.*
- *To explore the career of a chemical engineer.*

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. In the sugar/salt melting lab, which material melted at the lowest temperature? Which material has the strongest intermolecular forces?**
- 2. If a material is made of molecules, does it probably have covalent or ionic bonds? Explain.**
- 3. When sugar melts and becomes liquid, is it still sugar? Explain.**
- 4. Does melting sugar cause the breaking of intramolecular bonds? Explain.**
- 5. Why is it so difficult to melt an ionic compound like salt?**
- 6. What is the job of a chemical engineer?**
- 7. How can molecules be manufactured so they can conduct electricity?**
- 8. How can molecules be manufactured so they are flexible?**