

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

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

Objective(s):

- *To evaluate the ability of the crushability test to confirm the identity of a substance.*
- *To identify a range of physical properties of matter as effective characteristics for identification.*
- *To compare and contrast phase changes of matter: melting/freezing and condensation/vaporization.*

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:

In this segment, students perform identification testing using the physical property of crushability. Make sure that you perform the crushability test yourself before proceeding.

- 1. Why is crushability alone not enough to verify the identity of these materials?**
- 2. Crushability is really a physical property used by scientist to examine the brittleness of rocks and glass. What is brittleness?**
- 3. Name: a material that is malleable.**
- 4. Why do we say that magnetism is a physical property of matter?**
- 5. What are the freezing point and boiling point of water in degrees Celsius?**
- 6. When a material changes from solid to liquid to gas, this is called a phase change. What is vaporization? How can you cause water to vaporize?**
- 7. What is condensation? How can you cause water to condense?**
- 8. What is freezing? How can you cause liquid water to freeze?**