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World of Chemistry – Episode 5: Matter of State

1. The video states that states of matter may be changed. What is needed to make this possible?
2. What is the relationship between the temperature and pressure of a gas?
3. Describe, at the molecular level, how temperature affects the pressure of a gas.
4. How does the collapsing can demo work? Draw diagrams of before, during, and after the heating.
5. How is liquefied natural gas produced?
6. What are some uses of liquid nitrogen?
7. Why does the process of perspiration cool a person?
8. Describe the element bromine in its three states.
9. What happens to the particles in bromine as it cools?
10. What does the shape of a crystal tell us about its internal structure?