Gas Variables Video

**Learning Target:** I can create a video that will model particle motion of a gaseous sample as P, V, n, and/or T change.

**VARIABLES:**
Match each variable with the appropriate description.

- _____ Pressure, P  
  A. type of container material (glass, latex, etc.) and whether the container is sealed or not.
- _____ Volume, V  
  B. speed of particles
- _____ Amount, n  
  C. number of particles
- _____ Temperature, T  
  D. collisions against the sides of the container

**Your Situation:** Your instructor will identify the situation.

1. Describe the scenario that you are investigating for your situation.

2. Which variables are being held constant?
   How can the constancy of these variables be shown?

3. Which variable is being changed?
   How can this change be shown?

4. Which variable is being affected?
   How can this change be shown?

5. Explain what is happening in your situation. Justify using the Kinetic Molecular Theory.

**WeVideo:**
Create a short, stop motion WeVideo that explains the particle motion of your gas’s situation. In the video, provide your explanation and your justification. Be sure to identify whether your gaseous sample is in a rigid or flexible container.