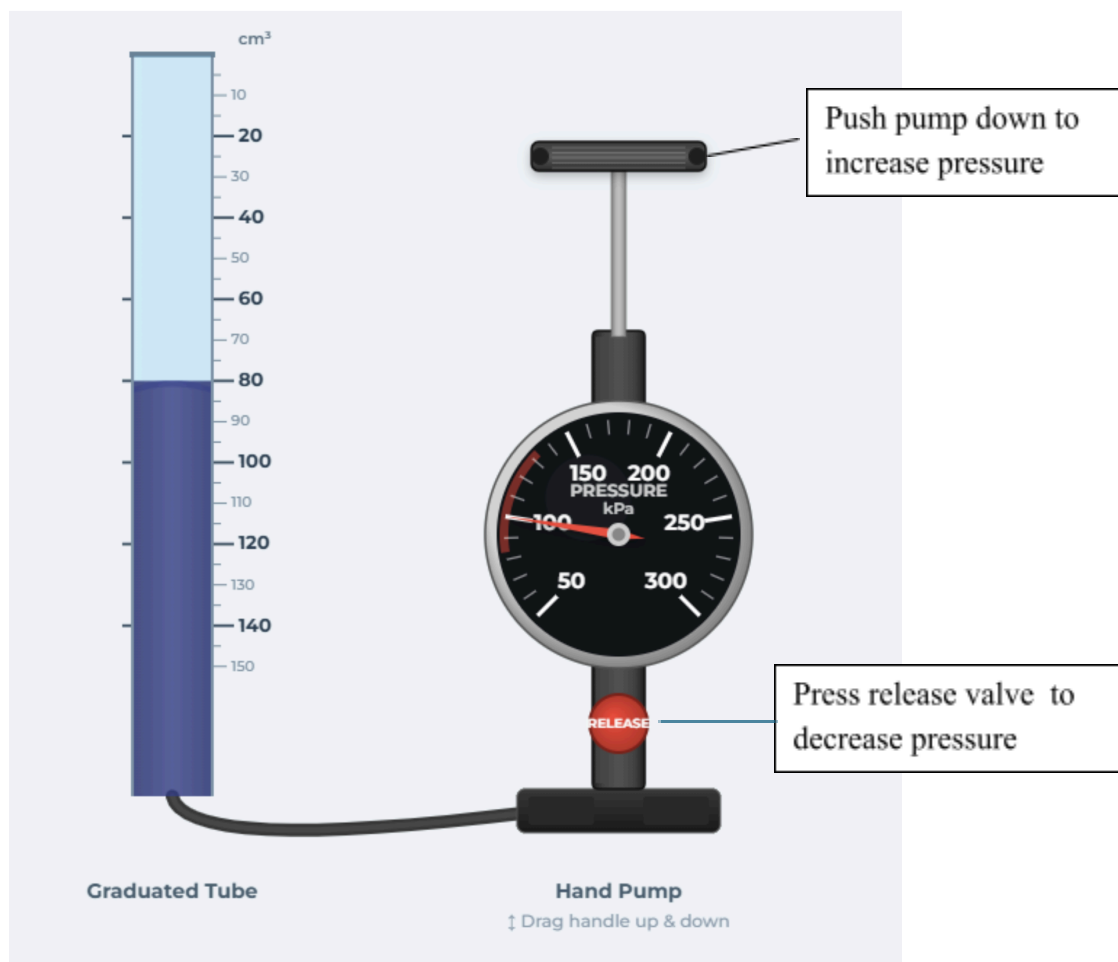


Pressure and Volume

Aim: You are investigating how changing pressure affects the volume of a gas.



Method:

1. Set the pressure to **100 kPa**. Read the volume from the graduated tube and record both values.
2. Pump the pressure up to **200 kPa**. Before you read the volume — *predict* what you think it will be. Then record the actual value. Were you right?
3. Record at least **6 pressure/volume pairs** across the full range of the gauge.

Prediction:

What will be the relationship between **Volume** and **Pressure**?

Results:

Pressure (kPa)	Volume (cm³)

Analysis:

Plot a graph of **Pressure** against **Volume**. Draw a best fit curve.

What pattern do you notice between pressure and volume?

Extension:

Plot a graph of **Pressure** against **1/Volume**. What does this tell you?