

Unit 08: Gas

Content Area: **Science**
Course(s): **Chemistry Accelerated**
Time Period: **Marking Period 4**
Length: **3 weeks**
Status: **Published**

Textbook Resources

Glencoe Science Chemistry Concepts and Applications

Chapter 11: Behavior of Gases

Standards

SCI.9-12.HS-PS1-3

Plan and conduct an investigation to gather evidence to compare the structure of substances at the bulk scale to infer the strength of electrical forces between particles.

Goals/Objectives

- What is the nature of gases?

Content

- • Ideal gas
- • Partial pressures
- • Pressure and its measurement
- • The relationships between pressure, volume, and temperature, and number of particles in gaseous systems

Skills

- • Create and interpret volume, temperature, and pressure graphs
- • Define Boyle's, Charles's, Combined, and the Ideal gas laws
- • Measure and convert pressure
- • Solve gas law problems