

<p>Unit 9 Overview Pacing: 4 Instructional Weeks Report Period 4: Weeks 1-4</p>
<p>How Can A Gas Be So Powerful?</p>

Key Concepts/Overarching Questions

KEY CONCEPT	OVERARCHING QUESTIONS
<p>1. Gas particles are in constant random motion and create great forces.</p>	<ul style="list-style-type: none"> • Why can a gas cause the lid of a film canister to fly off? • What happens to the molecules of a gas when they are heated?
<p>2. Understanding of gas molecule behavior enables us to predict how changes in volume, temperature and pressure can influence each other.</p>	<ul style="list-style-type: none"> • How does the volume of a gas change when extra pressure is applied? • What happens to the volume of gas if the temperature increases? • What happens to the pressure of a gas if the temperature is increased?
<p>3. The space between the molecules is so great, compared to the actual size of the molecules, that the volume of the container is the space in which the molecules have to move.</p>	<ul style="list-style-type: none"> • Why do the same number of molecules of any gas at the same temperature and pressure occupy the same volume?