

<p>___1. I can state the 4 parts of the Kinetic Molecular Theory.</p>	<p>The five parts of the Kinetic Molecular Theory are:</p> <p>a.</p> <p>b.</p> <p>c.</p> <p>d.</p>
<p>___2. I can define an ideal gas.</p>	<p>Definition:</p> <p>ideal gas:</p>
<p>___3 I can state the conditions of pressure and temperature under which a gas will act “ideally”.</p>	<p>A gas will act most “ideally” under the conditions of _____ pressure and _____ temperature.</p>
<p>___4. I can state the two elements that act ideally most of the time.</p>	<p>The two elements that act ideally most of the time are _____ & _____.</p>
<p>___5. I can explain how pressure is created by a gas.</p>	<p>What causes gas molecules to create pressure?</p>
<p>___6. I can state the relationship between pressure and volume for gases (assuming constant temperature).</p>	<p>At constant temperature, as the pressure on a gas increases, the volume _____.</p>
<p>___7. I can state the relationship between temperature and volume for gases (assuming constant pressure).</p>	<p>At constant pressure, as the temperature on a gas increases, the volume _____.</p>

<p>___8. I can state the relationship between temperature and pressure for gases (assuming constant volume).</p>	<p>I _____ in a fixed container (AKA "has constant volume), as the temperature on a gas increases, the pressure _____.</p>
<p>___9. I can state Avogadro's Hypothesis.</p>	<p>Avogadro's Hypothesis says _____ _____</p>
<p>___10. I can remember to convert °C to K when using the Combined Gas Law to determine changes in V, P, or T of a gas.</p>	<p>A gas originally occupies 2.3L at 56°C and 101.3 kPa. What will its volume be at 100°C and 105.7 kPa?</p>
<p>___11. I can define boiling point and vapor pressure.</p>	<p>Definition: Boiling Point: Vapor Pressure:</p>
<p>___12. I can state the conditions of temperature and pressure that are used for "normal" boiling points.</p>	<p>The normal (STP) boiling point of a substance occurs at temperature of _____ °C/ _____ K and a pressure of _____ atm/ _____ kPa. This can be found on Reference Table _____.</p>
<p>___13. I can state the relationship between atmospheric pressure and boiling point.</p>	<p>As the atmospheric pressure increases, the boiling point _____.</p>

<p>___14. I can determine the vapor pressure of ethanol, ethanoic acid, propane, or water at a given temperature.</p>	<p>What is the vapor pressure of ethanol at 56°C?</p> <p>What is the boiling point of propanone at STP?</p>
<p>___15. I can state the relationship between the strength of IMF and vapor pressure.</p>	<p>As the strength of IMF _____, vapor pressure _____.</p> <p>In terms of IMF, will have the lowest vapor pressure, H₂O or H₂?</p>
<p>___16. I can use Dalton's Law to determine a partial pressure</p>	<p>Gas A and gas B (both unreactive) are allowed to mix. The total pressure is found to be 3.50 atm. If gas B was measured initially at 1.25 atm, what is the partial pressure of gas A?</p> <p>a. 4.75 atm b. -2.25 atm c. 2.25 atm d. 1.25 atm</p>
<p>___17. I can convert between moles and liters at STP</p>	<p>_____ mols = 44.8 L _____ L = 2 moles</p> <p>_____ mols = 56.6L _____ L = .5 moles</p>
<p>___18. I can determine what gas molecules will diffuse or effuse fastest based on GFM.</p>	<p>The _____ molecule will diffuse the fastest.</p> <p>Determine which of the following will diffuse/effuse fastest.</p> <p>H₂O C₂H₈ O₂</p>