Name Chemistry 11 TA 2021-2022 Chapter Guide # 5: Gases **BIG IDEA:** Gas Laws, Ideal Gases, KMT, Gas Stoichiometry Fundamental Knowledge (I know) □ The Physical characteristics of gases How to use Boyles law and can relate it to everyday situations How to use the ideal gas law to solve for unknown amounts □ How to use a balanced chemical equation to calculate volumes of gases. Curricular Competencies (I can) **Proficiency Scale Evidence Teacher and Student self** assessment (How do you know?) (Circle one) l can: Emerging (EMG) **Initial Understanding** Demonstrate an awareness of Developing (DEV) assumptions, Partial/Near Complete question Understanding information given, and Proficient (PRF) identify bias in **Complete Understanding** their work and in primary and Extending (EXT) secondary Sophisticated Understanding sources Emerging (EMG) **Initial Understanding** Consider the Developing (DEV) role of scientists Partial/Near Complete in innovation Understanding **Proficient (PRF) Complete Understanding** Extending (EXT) Sophisticated Understanding

Student Signature:

Date:

TOPIC	OPTION 1	OPTION 2	OPTION 3
Substances that Exist in Gases	Create a glossary of the "Key Words" in chapter 5 (Pgs. 169 – 209)	Create a poster summarizing the physical characteristic of gases and include examples.	Choose your own adventure! Pick up a planning sheet from the Science Kiosk. Create a plan! Make sure you read through the first page of this LG, as you will need to design ways to learn/practice and show your understanding of the topic(s) and
	Read Pages 169 – 171 and complete Review Questions: 5.2 on Pg. 209.	Complete Review Questions: 5.2 on Pg. 209.	
Pressure of Gases and Gas Laws	Read Pages 171 – 181 and complete Review Questions: 5.3 and 5.7, on Pgs. 209 and 210. Complete <i>"Example: Practice Exercises"</i>	Create a "tri-fold" that summarizes the Kelvin Scale and the different gas laws. Complete Review Questions: 5.3, 5.7, and 5.15 on Pgs. 209 and 210.	
	5.1, 5.2, on Pgs. 173 and 174.	Complete "Example: Practice Exercises" 5.1, 5.2, on Pgs. 173 and 174.	
ldeal Gas Equation	Read Pages 181 – 186 and complete Review Question s: 5.27 and 5.29 on	Create Five (5) Ideal Gas Questions similar to <i>"Example:</i> Practice Exercises". Include an answer key!	
	Pg. 211. Complete <i>"Example: Practice Exercises"</i> 5.3, 5.4, 5.5, 5.6, and 5.7.	Complete Review Questions: 5.27 and 5.29 on Pg. 211. Complete "Example: Practice Exercises" 5.3, 5.4, 5.5, 5.6, and 5.7.	
Gas Stoichiome	Read Pages 190 – 196 and complete Review Question s: 5.51 and 5.52 on Pg. 211.	Summarize the information from Pgs. 190 – 196 in a digital presentation.	skill(s) (competencies.)
try and Law of Partial Pressures	Complete "Example: Practice Exercises" 5.11, 5.12, 5.13 and 5.14	Complete Review Questions: 5.51 and 5.52 on Pg. 211. Complete <i>"Example: Practice Exercises"</i> 5.11, 5.12,5.13.	You will need to have a teacher
110350105		and 5.14	plan before
Chapter	Complete "problems" 5.20, 5.34, 5.42, 5.52, and 5.54 beginning the LG.		
Review			
Lab	No Labs for this section.		
Self Assessment	Reflect on the Fundamental Knowledge and Curricular Competencies. Use the rubric and make goals to improve for your next learning guide.		
Interview AND Quiz	See you teacher for an interview (Bring all your complete work to the interview) AND to have a quiz slip signed for the test center.		

Resources can be found at <u>www.THSSscience.com</u> or the Science Kiosk

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