

Name \_\_\_\_\_ Period \_\_\_\_\_

College Prep Chemistry of the Earth

Assignment 5I – Molar Volume

20 Points

Define the following gas state of matter terms

Define Volume (L)	Define Molar Volume (22.4L/mol)

Convert the following volume measurements to mol, or mol to volume

Convert 36.4L CO <sub>2</sub> (g) to mol CO <sub>2</sub> (g)	
mol CO <sub>2</sub> (g)	

Convert 0.500mol H <sub>2</sub> (g) to volume H <sub>2</sub> (g)	
volume H <sub>2</sub> (g)	

Convert 14.5L CH <sub>4</sub> (g) to mol CH <sub>4</sub> (g)	
mol CH <sub>4</sub> (g)	

Convert 1.45mol CO <sub>2</sub> (g) to volume CO <sub>2</sub> (g)	
volume CO <sub>2</sub> (g)	

Convert 34.3L NO <sub>2</sub> to mol NO <sub>2</sub>	
mol NO <sub>2</sub> (g)	

Convert 9.23mol SO <sub>3</sub> (g) to volume SO <sub>3</sub> (g)	
Volume SO <sub>3</sub> (g)	

Convert 93.28L NO <sub>2</sub> to mol NO <sub>2</sub>	
mol NO <sub>2</sub> (g)	

Convert 2.47mol SO <sub>3</sub> (g) to volume SO <sub>3</sub> (g)	
Volume SO <sub>3</sub> (g)	