

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 5O – Molar Volume

20 Points

Define the following gas state of matter terms

Define Pressure (P) of a gas	Define Volume (V) of a gas
Define Temperature (K) of a gas	Define Molar Volume (22.4L/mol)

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

Convert 36.4L CO ₂ (g) to mol CO ₂ (g)	Convert 0.500mol H ₂ (g) to volume H ₂ (g)
mol CO ₂ (g)	volume H ₂ (g)
Convert 14.5L CH ₄ (g) to mol CH ₄ (g)	Convert 1.45mol CO ₂ (g) to volume CO ₂ (g)
mol CH ₄ (g)	volume CO ₂ (g)
Convert 34.3L NO ₂ to mol NO ₂	Convert 9.23mol SO ₃ (g) to volume SO ₃ (g)
mol NO ₂ (g)	Volume SO ₃ (g)