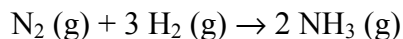


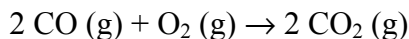
WKS
Gas Stoichiometry

NAME _____
Period _____ **Date** _____

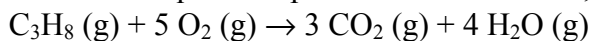
1. What volume of nitrogen gas at STP is needed to react with 57.0 mL of hydrogen, also at STP?



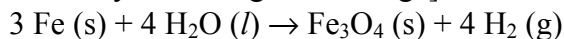
2. What volume of oxygen gas at 20.0°C and 0.953 atm is needed to react with 3.500×10^3 L of CO, also at 20.0°C and 0.953 atm?



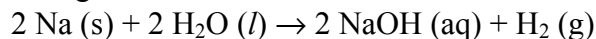
3. What volume of oxygen gas at STP is required to produce 640. L of CO₂, also measured at STP?



4. What volume of hydrogen gas can be produced at STP by the reaction of 6.28 g of Fe according to the following equation? [hint: where are you starting and ending?]



5. How many grams of sodium are needed to react with excess water according to the following equation, in order to produce 35.8 L of H₂ gas at STP?



6. What mass of ammonium nitrate, NH₄NO₃, must decompose according to the following equation to produce 25.0 L of N₂O gas at STP?

