

Check list for the gas test

1. Determine the type of problem:
 - a. If two sets of conditions are given—then use the combined gas law (make a V_1, V_2table.)
 - b. If only 1 set of conditions are given, then use $PV = nRT$.
 - c. If a reactant and a product are given, you will probably need to write a chemical equation and use stoichiometry.

2. If the problem requires stoichiometry:
 - a. Write a chemical equation

 - b. Change the given quantity to moles
 - i. if the initial quantity is given in grams, use gram formula weight
 - ii. if the initial quantity is given in liters, use $PV=nRT$ and solve for n.

 - c. Use the mole ratio from the balanced equation to determine moles of what you are trying to find.

 - d. After you have found moles of what you were looking for,
 - i. change to grams by using formula weight or.....
 - ii. change to liters by using $PV = nRT$ to solve for V.