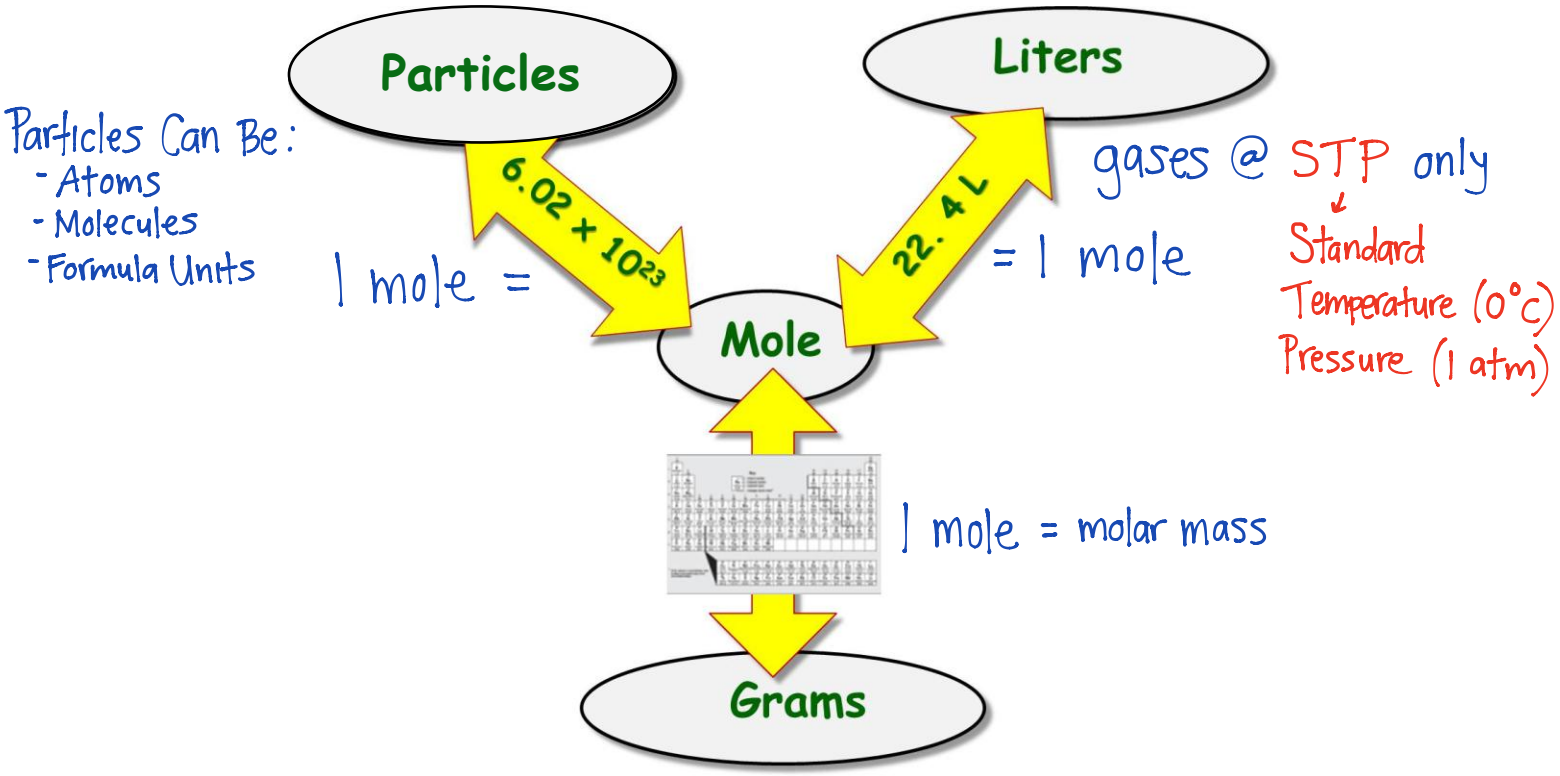
Mole Conversion Map

http://wongchemistry.weebly.com/the-mole.html



1. What is the mass, in grams, of 2.50 moles of methane, CH_4?

2. How many moles of helium atoms are in 16 grams of helium?

3. What is the volume, in liters, of 0.50 moles of ammonia, NH_3?

4. How many moles of propane, C_3H_8, are in 67.2 liters of propane?

5. A sample of carbon contains 9×10^{23} atoms of carbon. How many moles of carbon are in the sample?

6. How many molecules of ethane, C_2H_6, are in 4 moles of ethane?

7. What is the mass, in grams, of 1.5×10^{23} molecules of methane, CH_4?

8. What volume, in liters, is occupied by 15 grams of ethane, C_2H_6?

ANSWERS:

1) 40.1 g CH_4	3) 11 L NH_3	5) 1 mol C	7) 4.0 g CH_4
2) 4.0 mol He	4) 3.00 L C_3H_8	6) 2×10^{24} molecules C_2H_6	8) 11 L C_2H_6