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Conventions and Rules		Concentration		How to Find Limiting Reagents													
<p>Molar mass is the mass of one mole of atoms in a substance.</p> <p>1 mole of any gas is 24dm³ at r.t.p.</p> <p>Avogadro's Constant is the number of particles in one mole of any substance. The number is 6×10^{23}.</p> <p>Relative Atomic Mass is the mass of one atom of an element compared to 1/12 of the mass of one carbon-12 atom.</p> <p>Relative Molecular Mass is the mass of one molecule of an element compared to 1/12 of the mass of one carbon-12 atom.</p> <p>Relative Formula Mass is the mass of one formula unit of an ionic compound. It is the sum of the Ar of all the ions in the formula unit.</p> <p>1000cm³ = 1 dm³</p>		<p>The amount of solute dissolved in a unit volume of the solution.</p> <p>Usually in g/dm³ or mol/dm³.</p> <p>Mol/dm³ is also called Molarity.</p> <p>1M = 1 mol/dm³</p>		<p>$A + 2B \rightarrow 2AB$</p> <p>1. Find no. of available moles for A.</p> <p>2. Find no. of available moles for B.</p> <p>3. Find no. of moles needed for AB.</p> <p>E.g. Moles needed for A = Available moles for B / 2</p> <p>(Refer to mole ratio)</p> <p>If moles available is < moles needed, then that reactant is the limiting reagent.</p> <p>The concept of limiting reagents is the available moles for reaction vs the needed moles for reaction.</p>													
Formula Triangles		Molecular Formula & Empirical Formula		Mole Calculations													
Top	Bottom	Bottom 2	Value	Element A	Element B												
1	1	1	Mass in Grams	x	x												
No. of Particles	No. of Moles	Avogadro's No.	Molar Mass	x	x												
Mass in Grams	No. of Moles	Molar Mass in g/mol	Moles	x	x												
Volume of Gas in dm ³	No. of Moles	24dm ³	Mole Ratio	x	x												
Mass in g	Volume in dm ³	Mass Concentration in g/dm ³	<p>1. Given % Composition, find masses of both substances in 100g. If 70% is A and 30% is B, then there is 70g of A and 30g of B in 100g of AB.</p> <p>2. Find molar mass using periodic table.</p> <p>3. Find no. of moles by multiplying mass and molar mass.</p> <p>4. Divide all sides by the smallest number and round off to the nearest whole number to get mole ratio.</p> <p>5. Molecular Formula is always a multiple of the Empirical Formula.</p>														
No. of Moles	Volume in g/dm ³	Molar Concentration in mol/dm ³	<p>% Purity and % Yield</p> <p>% Purity = Mass of Pure Substance / Total Mass x 100%</p> <p>% Yield = Actual Mass / Theoretical Mass x 100%</p>														
<p>To find top, multiply bottom values. To find bottom, take top divided by other bottom value.</p> <p>1. No. of Particles / Moles / Avogadro's No.</p> <p>2. Mass / Moles / Molar Mass</p> <p>3. Volume / Moles / 24dm³</p> <p>4. Mass / Volume / Mass Concentration</p> <p>5. Moles / Volume / Molar Concentration</p>		<p>Limiting Reagents & Reactants in Excess</p> <table border="1"> <tr> <td>x</td> <td>No. of Available Moles</td> <td><</td> <td>No. of Moles Needed</td> </tr> <tr> <td>Limiting Reagents</td> <td>No. of Available Moles</td> <td>></td> <td>No. of Moles Needed</td> </tr> <tr> <td>Reactants in Excess</td> <td>No. of Available Moles</td> <td>></td> <td>No. of Moles Needed</td> </tr> </table>		x	No. of Available Moles	<	No. of Moles Needed	Limiting Reagents	No. of Available Moles	>	No. of Moles Needed	Reactants in Excess	No. of Available Moles	>	No. of Moles Needed	<p>Acids & Bases</p> <p>Metal + Acid → Salt + Hydrogen Gas</p> <p>Metal Carbonate + Acid → Salt + Water + Carbon Dioxide</p> <p>Metal Oxide + Acid → Salt + Water</p> <p>Metal Hydroxide + Acid → Salt + Water</p> <p>Base + Acid → Salt + Water (Neutralisation)</p> <p>Alkali + Acid → Salt + Water</p> <p>Alkali + Ammonium Salt → Salt + Water + Ammonia Gas</p> <p>Alkali + Salt → Metal Hydroxide + Salt</p>	
x	No. of Available Moles	<	No. of Moles Needed														
Limiting Reagents	No. of Available Moles	>	No. of Moles Needed														
Reactants in Excess	No. of Available Moles	>	No. of Moles Needed														

Object	Array	File
Obj#class -> class	Array::new (int [,obj]) -> array	File#new (path, modestring)-> file
Obj#freeze -> object	Array#clear	File#new (path, modestring) do {file} ... end
Obj#frozen? -> true or false	Array#map! do [x] ... end	File#open (path, modestring) do {file} ... end
Obj#inspect -> string	Array#delete (value) -> obj or nil	File#exist? (path) -> t or f
Obj#is_a? (class) -> true or false	Array#delete_at (index)-> obj or n	File#basename (path [,suffix]) -> string
Obj#methods -> array	Array#delete_if do [x] ... end	File#delete (path, ...)
Obj#respond_to? (sym) -> true or false	Array#each do [x] ... end	File#rename (old, new)
Obj#to_s -> string	Array#flatten! -> array	File#size (path) -> integer
	Array#include? (value) -> t or f	r Read-only, from beginning
	Array#insert (idx, obj...)-> array	r+ Read-write, from beginning
	Array#join (lstring) -> string	w Write-only, trunc. / new
	Array#length -> integer	w+ Read-write, trunc. / new
	Array#pop -> obj or nil	a Write-only, from end / new
	Array#push (obj...) -> array	a+ Read-write, from end / new
		b Binary (Windows only)
	Hash	Dir
	Hash#clear	Dir[string] -> array
	Hash#delete (key) -> obj or nil	Dir::chdir (lstring)
	Hash#delete_if do [k, v] ... end	Dir::delete (string)
	Hash#each do [k, v] ... end	Dir::entries (string) -> array
	Hash#has_key? (k) -> true or false	Dir::foreach (string) do {file} ... end
	Hash#has_value? (v) -> t or f	Dir::getwd -> string
	Hash#index (value) -> key	Dir::mkdir (string)
	Hash#keys -> array	Dir::new (string)
	Hash#length -> integer	Dir::open (string) do {dir} ... end
	Hash#select do [k, v] ... end -> array	Dir#close
	Hash#values -> array	Dir#pos -> integer
		Dir#read -> string or nil
	Test::Unit	Dir#rwind
	assert (boolean [,msg])	DateTime
	assert_block (message) do ... end	DateTime::now
	assert_equal (expected, actual [,msg])	DateTime::parse (str)
	assert_in_delta (exp, act, dlt [,message])	DateTime::strftime (str, format)
	assert_kind_of (klass, object [,msg])	DateTime#day
	assert_match (pattern, string [,msg])	DateTime#hour
	assert_nil (object [,msg])	DateTime#leap?
	assert_no_match (pattern, string [,msg])	DateTime#min
	assert_not_equal (expected, actual [,msg])	DateTime#month
	assert_not_nil (object [,msg])	DateTime#sec
	assert_not_same (expected, actual [,msg])	DateTime#yday
	assert_respond_to(obj, method [,msg])	DateTime#year
	assert_same (expected, actual [,msg])	

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