

Solution Stoichiometry
Chem Worksheet 15-6

Name: _____

The molarity of a solution is a ratio of the moles of solute per liters of solution. The units for molarity are written as mol/L, or *M*. This measurement is used to perform stoichiometric calculations. The strategy used for solving these solution stoichiometry problems is to set up the problem so that the units cancel.

When the volume of a solution is multiplied by the molarity of a solution the resulting units are moles. A balanced equation allows us to convert from moles of a known substance to moles of an unknown. Finally, the moles of an unknown substance can be converted into grams, liters of solution, molarity, or other units.

UNIVERSAL POLYMER

$$\text{molarity} = \frac{\text{mmol solute}}{\text{L. solution}} \quad \text{H. L.} = 5000 \text{ mL}$$



Fluorine esters prepared of sodium calcium hydroxide, $\text{Ca}(\text{OH})_2$, are prepared by reacting with 300 ml. of 0.45 M HClO_4 .



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$$\frac{\text{STANDARD FACT}}{1} \times \frac{1\%}{\text{REACTANT}} = \text{REACTANT FACT}$$

- verlag: die "globe" und "handwerker" verlag

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0-9 See Numbers; word numbers

$$\frac{(0.1407 \text{ mol})}{(1 \text{ mol})} \times \frac{(0.1407 \text{ mol})}{(1 \text{ mol})} \times \frac{(1 \text{ mol})}{(1 \text{ mol})} \times \frac{(100.09 \text{ g})}{(1 \text{ mol})} = 2.18 \text{ grams CaCO}_3$$

Answer the following questions. Show all work, and report answers with units.

- How many grams of aluminum are required to react with 35 mL of 2.0 M hydrochloric acid, HCl?
 $\text{--- HCl} + \text{--- Al} \rightarrow \text{--- AlCl}_3 + \text{--- H}_2$
- How many grams of sodium can be reacted with 750 mL of a 6.0 M solution of sulfuric acid, H_2SO_4 ?
 $\text{--- Na} + \text{--- H}_2\text{SO}_4 \rightarrow \text{--- Na}_2\text{SO}_4 + \text{--- H}_2$
- If 45 mL of a 1.5 M AgNO_3 is added to KCl how many grams of AgCl can be formed?
 $\text{--- AgNO}_3 + \text{--- KCl} \rightarrow \text{--- AgCl} + \text{--- KNO}_3$
- How many liters of a 0.75 M solution of $\text{Ca(NO}_3)_2$ will be required to react with 148 g of Na_2CO_3 ?
 $\text{--- Ca(NO}_3)_2 + \text{--- Na}_2\text{CO}_3 \rightarrow \text{--- CaCO}_3 + \text{--- NaNO}_3$
- How many liters of a 3.0 M H_3PO_4 solution are required to react with 4.5 g of zinc?
 $\text{--- H}_3\text{PO}_4 + \text{--- Zn} \rightarrow \text{--- Zn}_3(\text{PO}_4)_2 + \text{--- H}_2$
- How many milliliters of 0.10 M $\text{Pb(NO}_3)_2$ are required to react with 75 mL of 0.20 M NaCl?
 $\text{--- Pb(NO}_3)_2 + \text{--- NaCl} \rightarrow \text{--- PbCl}_2 + \text{--- NaNO}_3$
- How many grams of solid BaSO_4 will form when Na_2SO_4 reacts with 25 mL of 0.50 M $\text{Ba(NO}_3)_2$?
 $\text{--- Ba(NO}_3)_2 + \text{--- Na}_2\text{SO}_4 \rightarrow \text{--- BaSO}_4 + \text{--- NaNO}_3$
- If 325 mL of 0.80 M HCl solution is neutralized with 315 mL of Sr(OH)_2 solution what is the molarity of the Sr(OH)_2 ?
 $\text{--- HCl} + \text{--- Sr(OH)}_2 \rightarrow \text{--- SrCl}_2 + \text{--- H}_2\text{O}$

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Yicheng Fang



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a substructure database is the set of files that describe the mechanical and geometrical properties of a substructure and abaqus writes all substructure data to the substructure database during the substructure generation analysis

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dec 17 2013 i have created a substructure in abaqus as output i will like to see the substructure matrices mass stiffness and damping matrices however i m only able to write the mass and stiffness matrices to an output file mtx does anyone know how to create an output file including both the mass stiffness and damping matrices of the substructure

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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

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limitations of structural elements membrane elements cannot be used to overlay a substructure that consists of second order three dimensional brick elements of type c3d20 r h if the substructure will be used as a slave surface normally abaqus standard automatically converts c3d20 r h brick elements to elements with midface nodes c3d27 r h because this

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in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus
problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and
the beam are each modeled with 10 elements of type b21 once a substructure has been